

Key European Findings (continued)

Reformulated Switching & Pricing Findings (continued)

- 8 Nearly all physicians claim they will start their newly diagnosed patients on reformulated products once they are introduced Denmark is the only exception
- 9 Spanish and Swedish physicians say they will prefer Refacto for their PUPs, while German physicians say they will go with Kogenate SF
- 10 Patients (56%), more so than physicians (24%), express the need to keep previous generation products on the market.
- 11 Physicians, at 72%, are more likely than patients (59%) to be influenced by the inability for continuous infusion and room temperature storage Specifically, physicians are more concerned about lack of continuous infusion and patients are more concerned over lack of room temperature storage.
- 12 Refacto will pose the biggest threat to Recombinate in Europe due to its "first to the market" advantage
- 13 Physicians are price sensitive Less than half will choose the reformulated product if it is priced more than 5% over the current recombinant FVIII concentrates Danish and Italian physicians are most price sensitive

European Conclusions

Several changes occurred in the European market from 1998 to 1999. Some may have been driven by Refacto's entry into this market.

European Findings -1998 to 1999 Comparison -

- Refacto has entered the market and holds a 6% share among our sample
- Plasma derived usage has dropped from 39% to 31% among our sample
- Viral safety remains the top reason to switch
- Physician recommendation has decreased as a reason to switch, but physicians remain as the top switching influencer
- The advantage held by Recombinate Over Kogenate in patients' overall satisfaction and meets safety needs ratings in 1998 no longer exists in 1999 Now they are rated equally.
- Unaided concern of CJD rose from 0% to 10%
- Viral safety in general is still the top unprompted safety concern, but was mentioned less often than in 1998
- Long-term clinical experience and adverse events have increased in safety importance

Conclusions

- Exposure to human/animal proteins in mfg. has decreased in safety element importance
- Patients' reputation ratings for Baxter and Bayer have increased, but decreased for Centeon
- Awareness of Refacto has grown significantly, while Kogenate SF awareness grew only slightly
- Patient and physician awareness has risen significantly regarding reformulated products .using albumin to stabilize; still being exposed to proteins in manufacturing, and being based on modified Factor VIII gene
- The percent expecting to switch within 1 year to a reformulated has risen from 53% in 1998 to 59% in 1999 for physicians and dropped from 54% to 45% for patients
- Physicians are more likely now to start PUPs on reformulated products once they are available
- Physicians have become slightly more price sensitive, now less are willing to pay a 20% premium

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European Project Recommendations

Recommendations

Baxter can make several marketing moves to slow the acceptance of Kogenate SF, Refacto and Helixate NexGen, perhaps buying more time than the current window. Specific strategies include:

- Immediately publicize to physicians and patients that Baxter is developing a "protein free" product . ***get the word out.***
- Use proactive and defensive marketing tactics to control the speed at which Recombine users switch to competing reformulated products . ***act on the drivers and barriers that Baxter can influence.***
- Work vigorously on a "protein free" product with the critical goal of being the first to ***market be the R&D leader.***



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European Recommendations (continued)

Recommendations

Get the Word Out

- publicize to physicians, nurses (in the U.S.) and patients that Baxter is developing a "protein free" product and educate everyone on Baxter's new product as early as possible

Proactive Marketing Efforts

- continue promoting Recombinate's track record and Baxter as an established FVIII manufacturer
- continue developing brand identity and loyalty for Recombinate, particularly among professionals
- differentiate via patient education and convenience features (5 ml infusion volumes, a greater selection of potencies, smaller packaging and improved reconstitution/syringe system)

Defensive Marketing Efforts

- educate about the use of *human/animal proteins during manufacturing, refuting (or weakening) the claims that new products will be "albumin free"*
- educate about the use of a *modified gene in new products*
- educate about Kogenate SF's potential inability for *continuous infusion (physician focus)* and room temperature storage (patient and nurse focus)
- raise questions with physicians about the risks of taking patients off of a single product *versus* the unsubstantiated reward of an incrementally safer product
- raise questions with physicians about the availability of the newly reformulated concentrates
- raise questions about Wyeth's ability to supply and its commitment to the hemophilia market
- make all efforts to delay the introduction of the reformulated products (*i.e. persuade prominent physicians to refute the trial results of all new products*)
- if share is slipping rapidly, price Recombinate 10% lower than the reformulated products

European Recommendations (continued)

Recommendations

Shorten the Window of Exposure

- Physicians and patients need time to review clinical trials prior to switching to a new product if Baxter can get its product to market within the two year window it can potentially avoid losing a large share of its customers
- It typically takes a full year for a physician to see each patient and discuss new products and switching. Take advantage of this time to educate, build loyalty and raise doubts about the true benefits of the reformulated products.

First to Market with "Protein Free"

- A "protein free" FVIII concentrate will be seen as a major step-change improvement in safety
- The first company to market with a totally human/animal protein free product should be able to capture a very large percentage of switching patients in a one year time frame, capitalizing on a "first comer" advantage
- Being first to market with a totally safe product would also greatly strengthen the company's reputation and position it as the leader in the Factor VIII replacement market

This concludes the presentation.
Thank you very much.



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Appendix

- European Physician Respondent List -



**1999 Baxter Global Hemophilia Study
European Physician Respondent List**

Appendix

| | | | | |
|---------|--------------------------|-----------|---------------------------------|-------------------------------|
| Denmark | Jorgen Ingwerslev, MD | Physician | Skeby Hospital | Aarhus |
| France | Dr Borel-Derlon | Physician | CHRT Laboratoire D'Hematologie | Caen 3323 1064565 |
| France | Dr Dirat | Physician | Centre d'Hemophiles La Perle | Osseja 3346 8307235 |
| France | Dr Gay | Physician | CHG de Chambery (Centre de Tra | Chambery 3347 9965667 |
| France | Dr Gembara | Physician | Hotel-Dieu, Service de pediatr | Clermont-Ferrand 3347 3750000 |
| France | Dr Negner | Physician | Hopital Edouard Herriot | Lyon 3347 2117338 |
| France | Dr Parquet | Physician | Centre de Traitement des Hemop | Lille 3380 2802222 |
| France | Dr Petnod | Physician | CHRU Grenoble | Grenoble 3347 6765487 |
| France | Dr Plouvier | Physician | Hopital Saint-Jacques | Besancon 3338 1218138 |
| France | Dr Sicardi | Physician | Centre Medical Montgraud | Marseille 3349 1544224 |
| France | Dr Stellies | Physician | Centre de Traitement d'Hemophil | Paris 3314 2341589 |
| Germany | Dr Eberl | Physician | Kinderklinik Braunschweig | Braunschweig 5315 951424 |
| Germany | Dr Rommel | Physician | Uniklinik Munchen | Munchen 82195039 |
| Germany | Dr Siemens | Physician | Uniklinik Lubeck | Lubeck 4515 006461 |
| Germany | Dr Wendisch | Physician | Uniklinik Dresden | Dresden 3514 582240 |
| Germany | Mrs Dr Kurnik-Auerberger | Physician | Hauersche Kinderklinik | Munchen 8951 602811 |
| Italy | Dott Baudo Francesco | Physician | Ospedale Niguarda | Milano 390264 442970 |
| Italy | Dott Billio Alto | Physician | Ospedale Civile | Bolzano 390471 908495 |
| Italy | Dott Boeri Elio | Physician | Istituto Scientifico Gaslini | Genova 390105 636551 |
| Italy | Dott Castaman Giancarlo | Physician | Ospedale San Bortolo | Vicenza 390444 993679 |
| Italy | Dott Ezio Zano | Physician | Azienda Ospedaliera | Padova 390498 212666 |
| Italy | Dott Longo | Physician | Ospedale Careggi | Firenze 390554 277587 |



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European Physician Respondent List (continued)

Appendix

| | | | | | |
|--------|-------------------------------|-----------|--------------------------------|----------------|---------------|
| Italy | Dott Piseddu | Physician | Ospedale Ruinu di Sassari | Sassari | 390792061518 |
| Italy | Dott ssa Laura Perugini | Physician | Azienda Ospedaliera | Torino | 390113135591 |
| Italy | Dott ssa Santarelli Rita | Physician | Ospedale Provinciale Bufalini | Ravenna | |
| Italy | Dottoressa Schinco Piercarla | Physician | Ospedale Molinette | Torino | 393889727503 |
| Spain | Dr Carmen Altsent | Physician | Hospital Vall d'Hebron | Barcelona | 34985108000 |
| Spain | Dr Manuel Fernandez Urgeles | Physician | Hospital Neustra Sra De Covad | Oviedo | 34985108000 |
| Spain | Dr Manuel Quintana | Physician | Hospital La Paz | Madrid | 34915481554 |
| Spain | Dr Rosario Gonzalez Boullousa | Physician | Hospital Xeral de Vigo | Vigo (Galicia) | 34986816000 |
| Spain | Dr Victor Jimenez Yusle | Physician | Hospital La Paz | Madrid | 34913584191 |
| Sweden | Eric Bernfors, MD | Physician | Malmö University Hospital | Malmö | |
| Sweden | Pia Pettni, MD | Physician | Karolinska Hospital | Stockholm | |
| Sweden | Rolf Ljung, MD | Physician | University Hospital Malmö | Malmö | |
| Sweden | Sam Schulman, MD | Physician | Karolinska Hospital | Stockholm | |
| UK | Dr Collins | Physician | University Hospital of Wales | Cardis | 441222742155 |
| UK | Dr Elizabeth Chalmers | Physician | Hospital for Sick Children | Glasgow | 441412010000 |
| UK | Dr FGH Hill | Physician | Birmingham Children's Hospital | Birmingham | 441213339999 |
| UK | Dr Makns | Physician | Royal Hallamshire Hospital | Sheffield | 441142711900 |
| UK | Dr Mark Smith | Physician | St Thomas Hospital | London | 4411772611379 |
| UK | Dr Mc Verry | Physician | St James University Hospital | Leeds | 441132433144 |
| UK | Dr Paul Giangrande | Physician | Oxford Hemophilia Center | Oxford | 441865741841 |
| UK | Dr RF Stevens | Physician | Royal Manchester Children's | Manchester | 4416117944696 |
| UK | Dr Winter | Physician | Kent & Canterbury Hospital | Kent | 441227766877 |
| UK | Professor Pasl | Physician | Leicester Royal Infirmary | Leicester | 441162523225 |

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Ind Gen. Re VIII

N. A. Findings

Final Report

**2nd Generation Recombinant Factor VIII
Product Introduction Assessment**

North American Findings

Baxter Healthcare Corporation

January 17, 2000

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Agenda

Objectives and
Methodology

U S. Findings

U S. Conclusions

Canadian Findings

Canadian Conclusions

North American
Recommendations

The primary goal of this project is to provide Baxter with global market intelligence allowing it to successfully position its recombinant Factor VIII product against competitive next-generation products.

Objectives

The primary objectives of this project are:

- Determine the motivators and drivers of switching behavior. What will cause and prevent switching from Recombinate to a competitive product?
- Understand the perceptions of decision makers on the next generation recombinant products (Kogenate SF, Refacto and Helixate NexGen) coming to market and how this differs from the previous findings

Specific project objectives include:

- Estimate likelihood of switching from Recombinate to new recombinant products
- Compare findings to those of the initial 1998 study, where applicable

This report represents the views of this sample and is just one piece of a strategic marketing plan. Baxter must balance this data with its corporate directives and other internal, competitive and legislative intelligence.



This project was conducted globally and consisted of two distinct phases.

Global Scope

The project was conducted concurrently in the following four global regions:

| <u>North America</u> | <u>Europe</u> | <u>Asia</u> | <u>Inter-Continental</u> |
|----------------------|---------------|-------------|--------------------------|
| • United States | • Germany | • Japan | • Australia |
| • Canada | • France | | • New Zealand |

• Italy
• Spain
• United Kingdom
• Denmark
• Sweden

This was a blind study, at no time was Baxter mentioned as the sponsor.

Phase I

Phase I was a focused qualitative phase. Information was gathered via in-depth one-on-one and telephone interviews. This information provided the foundation for the quantitative phase of the research effort.

Phase II

This phase was a quantitative effort, with information gathered via telephone interviews. The output of this phase is a detailed understanding of the project objectives. This information will allow Baxter to develop strategies that maximize its market positioning



A total of 479 interviews were completed for this study.

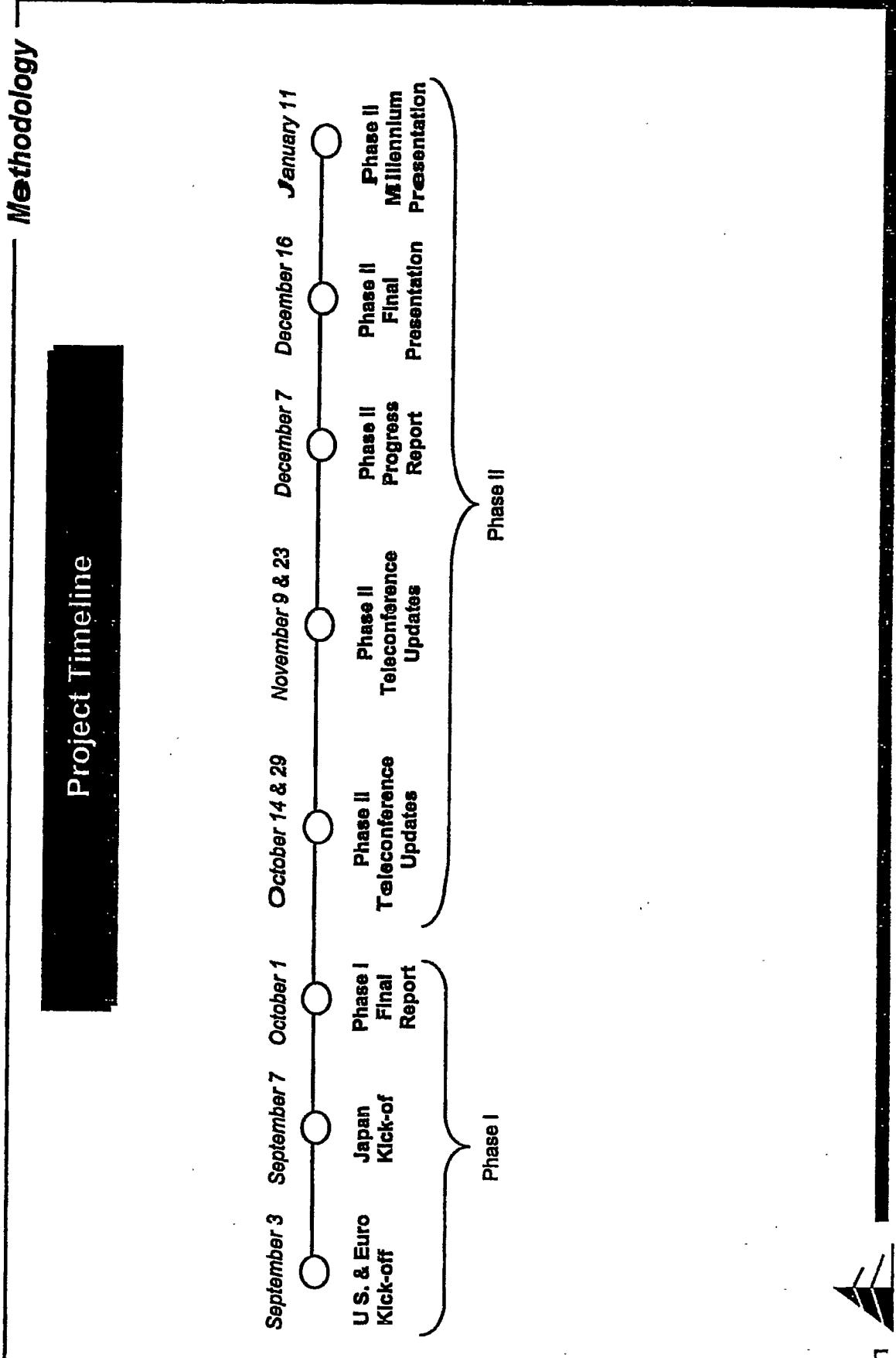
Methodology

| Country | Respondent Group | Phase I Interviews Completed | Phase II Interviews Completed | Notes |
|----------------|-------------------|------------------------------|-------------------------------|---|
| U S | Patients | 4 | 100 | * 1 short of target and includes 1 nurse No more physicians agreed to participate |
| | Physicians/Nurses | 7 | 65 | |
| Canada | Physicians | -- | 9* | |
| Germany | Patients | 2 | 20 | |
| | Physicians | 1 | 5** | |
| France | Patients | 2 | 20 | |
| | Physicians | 1 | 10 | |
| Italy | Patients | 2 | 20 | |
| | Physicians | 1 | 10 | |
| Spain | Patients | -- | 10 | |
| | Physicians | -- | 10 | |
| United Kingdom | Patients | 2 | 20 | |
| | Physicians | 1 | 10 | |
| Denmark | Patients | -- | 10 | |
| | Physicians | -- | 1† | |
| Sweden | Patients | -- | 10 | † 1 short of target No more physicians agreed to participate |
| | Physicians | -- | 4†† | |
| Japan | Patients | 3 | 54* | |
| | Physicians | 2 | 20 | |
| Australia | Patients | 2 | 20 | x 6 short of target However, still higher response than expected |
| | Physicians | 1 | 10 | |
| New Zealand | Patients | -- | 10 | |
| | Physicians | -- | 5 | |
| Total | | 31 | 448 | In most countries, Baxter provided Martec a list of physicians to target for this study |


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The project was completed as scheduled.



Agenda

Objectives and
Methodology

U.S. Findings

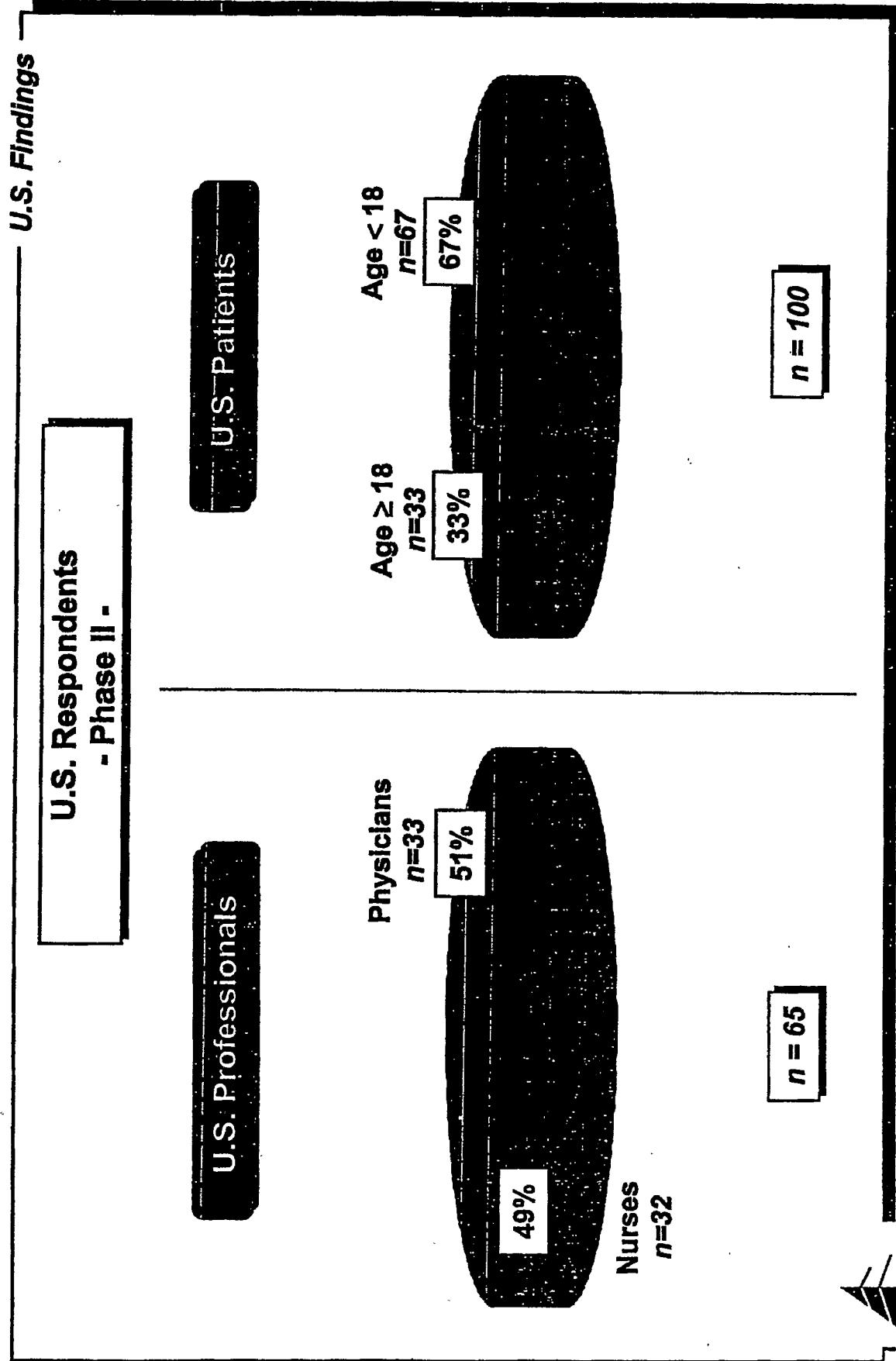
U.S. Conclusions

Canadian Findings

Canadian Conclusions

North American
Recommendations

The respondent segmentation matched the quotas set forth by Baxter at the beginning of the project.



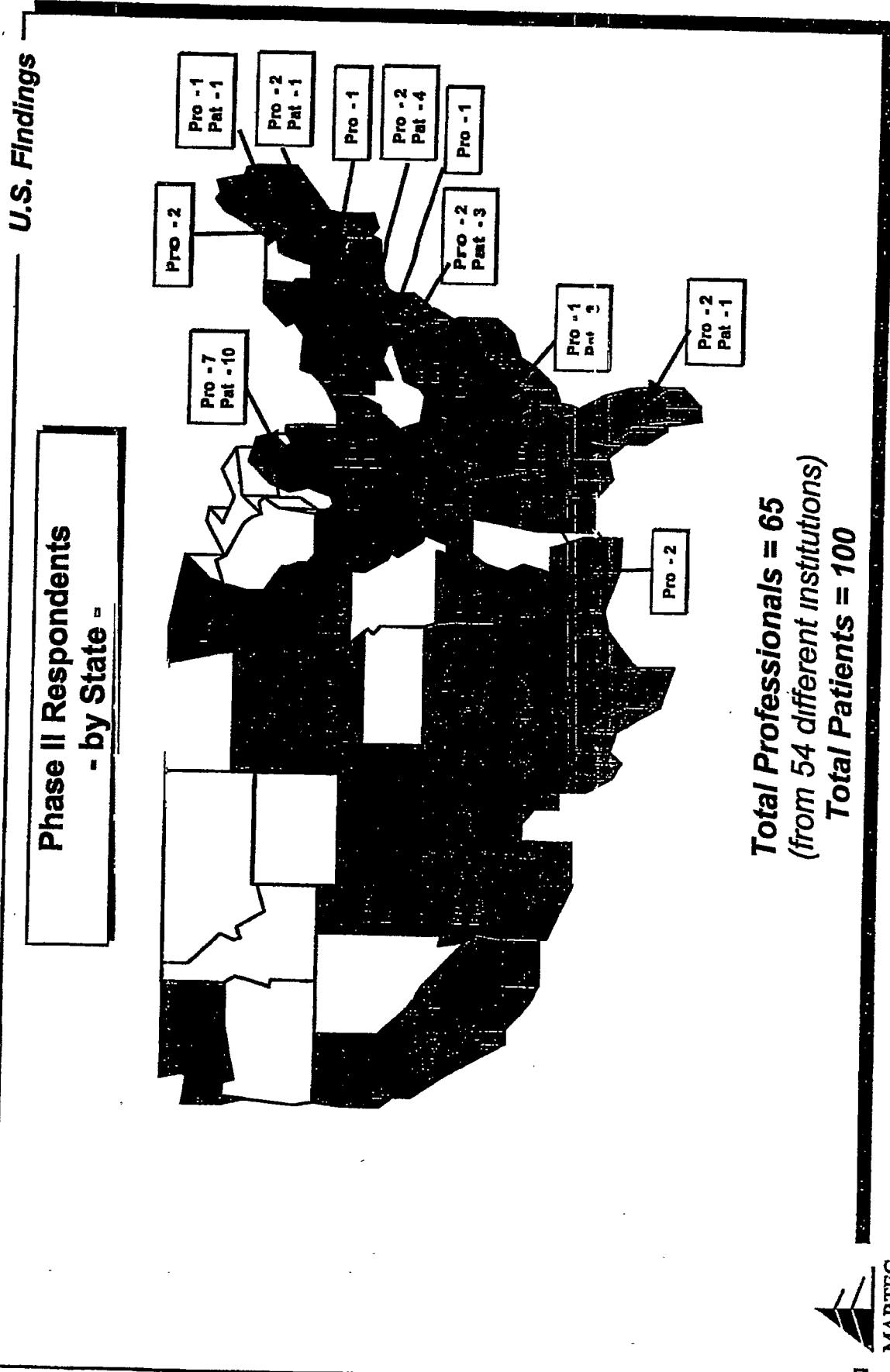
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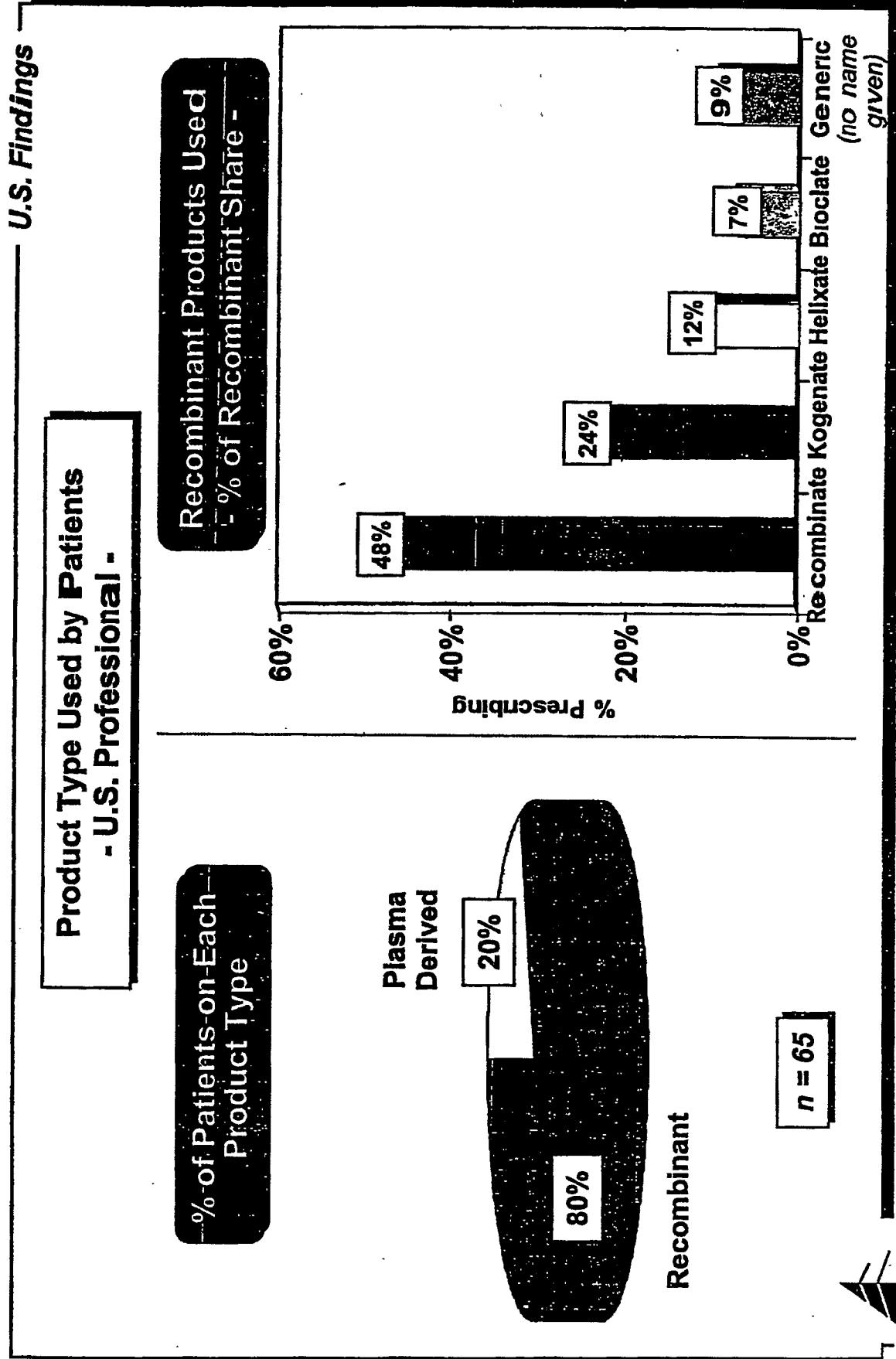
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Phase II U.S. respondents were distributed geographically.

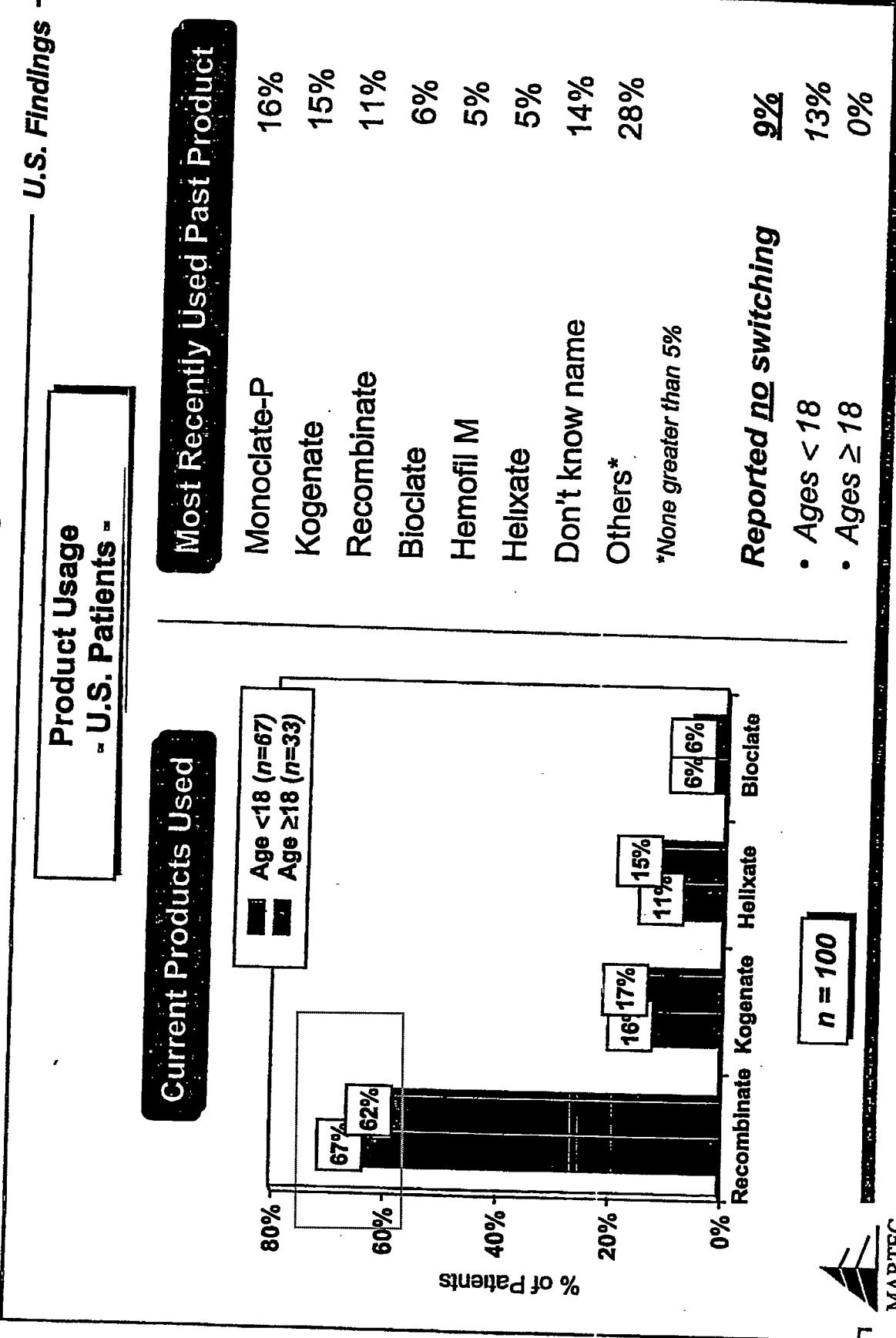
Phase II Respondents
- by State -



Recombinant products, particularly Recombinate, were most often used by the U.S. professionals' patients in this sample.

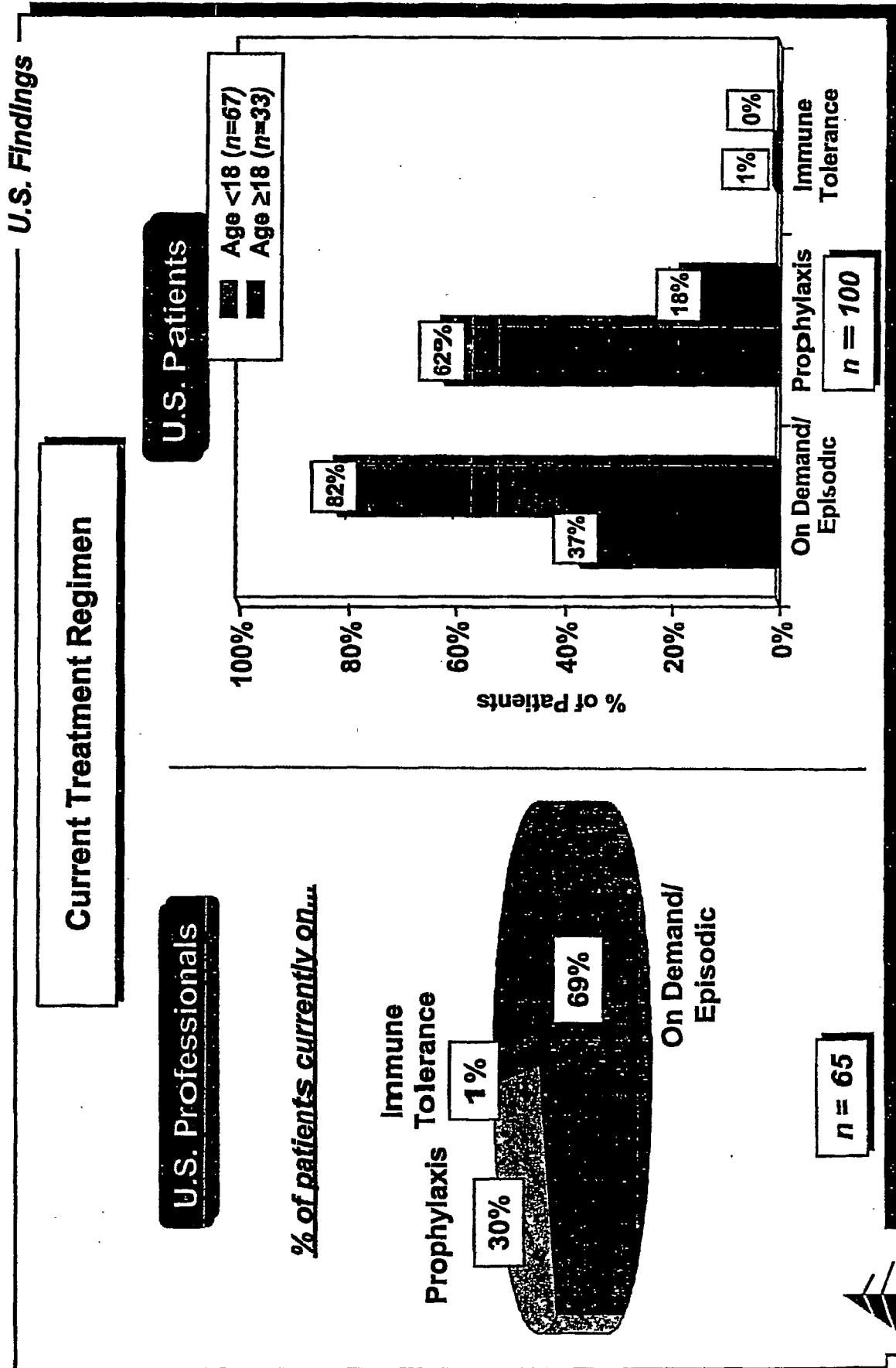


Recombinate is clearly the most common product used by both patient groups in the sample of this study.

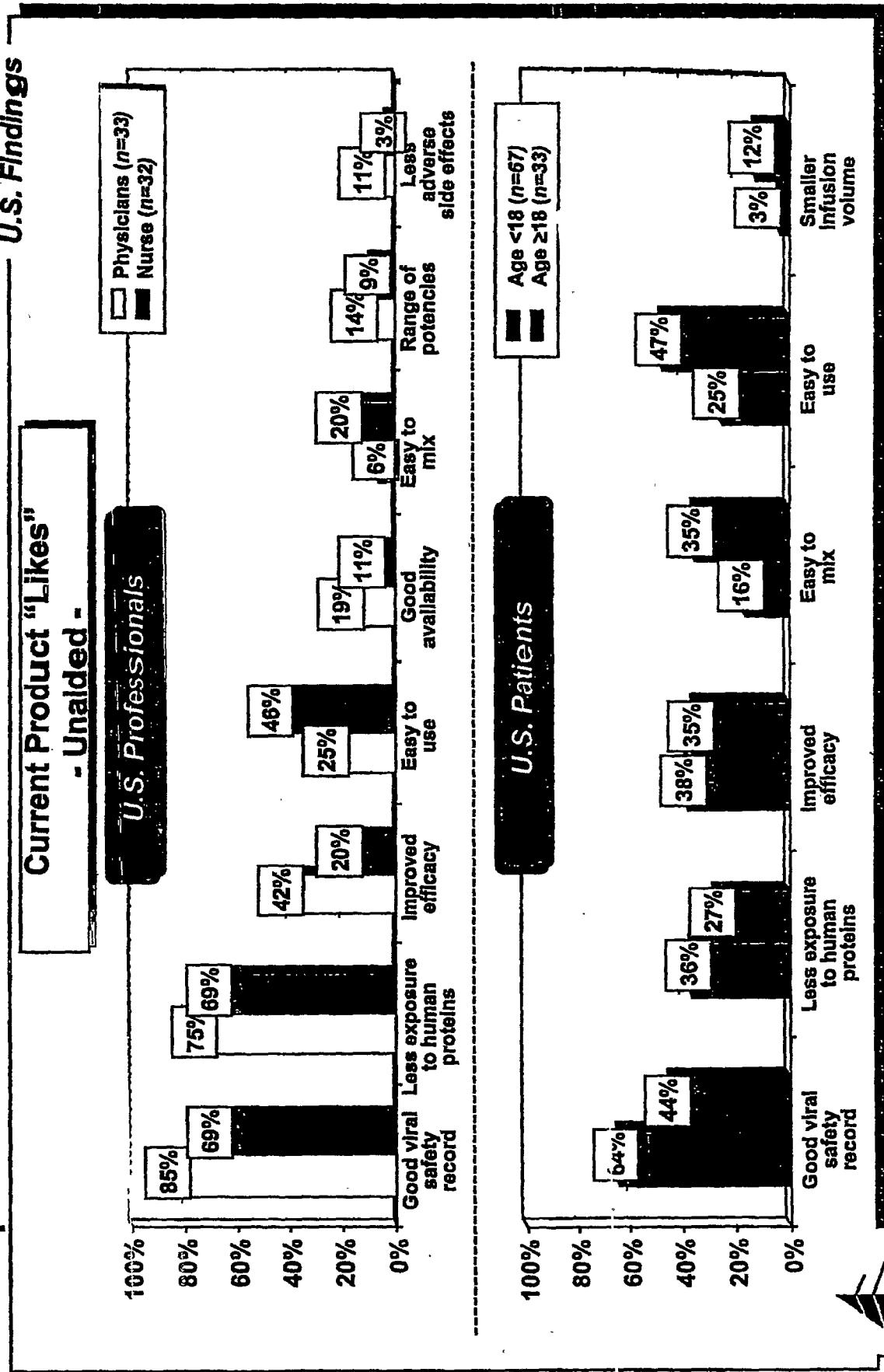


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U.S. patients under the age of 18 are three times as likely to follow a prophylaxis treatment program.

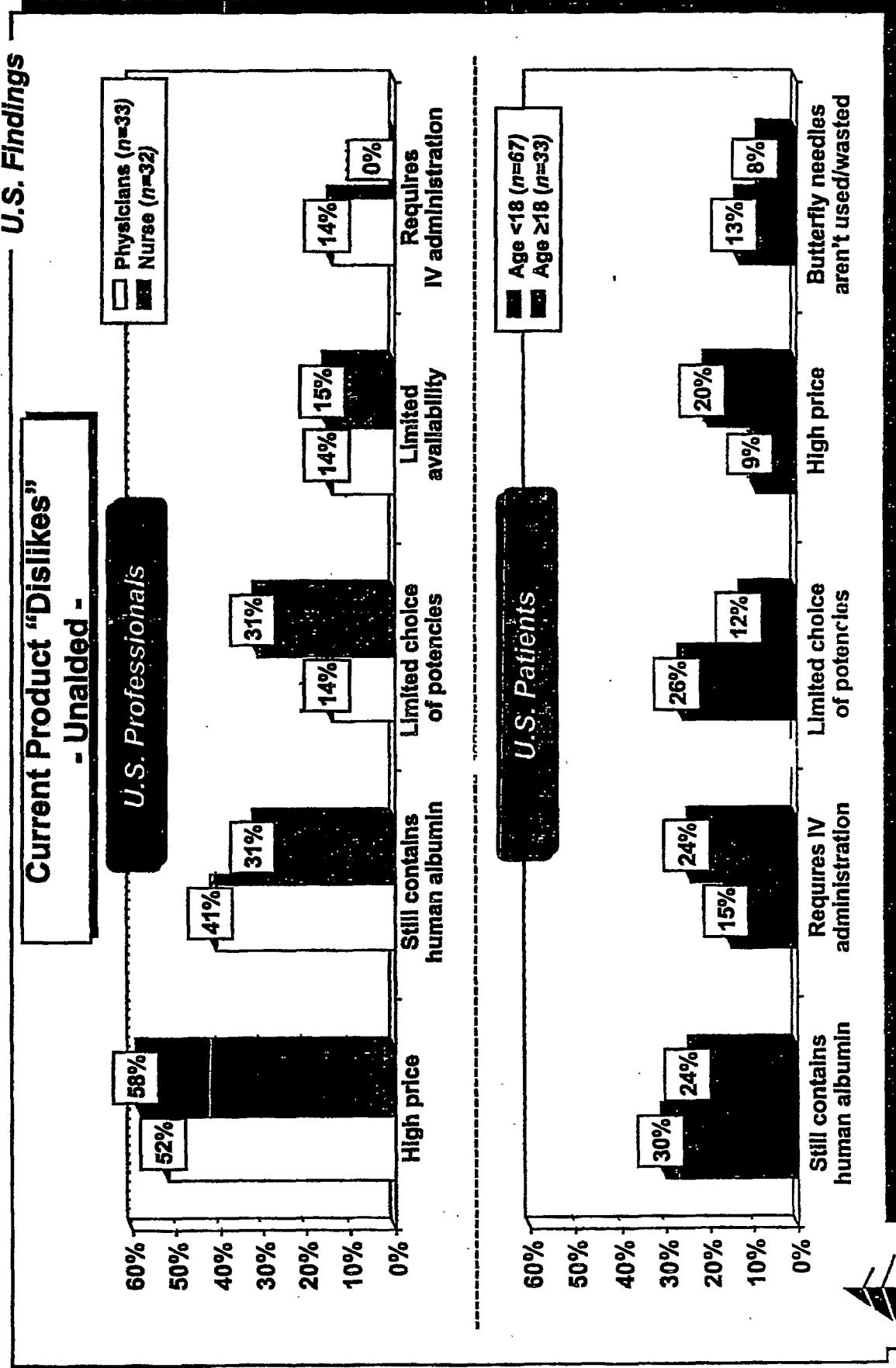


Good Viral Safety was frequently mentioned as a "Like" by all respondents. Easy to use was frequently mentioned by nurses and older patients.



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High price is the top “Dislike” among U.S. professionals. Contains human albumin is a leading “Dislike” among patients.

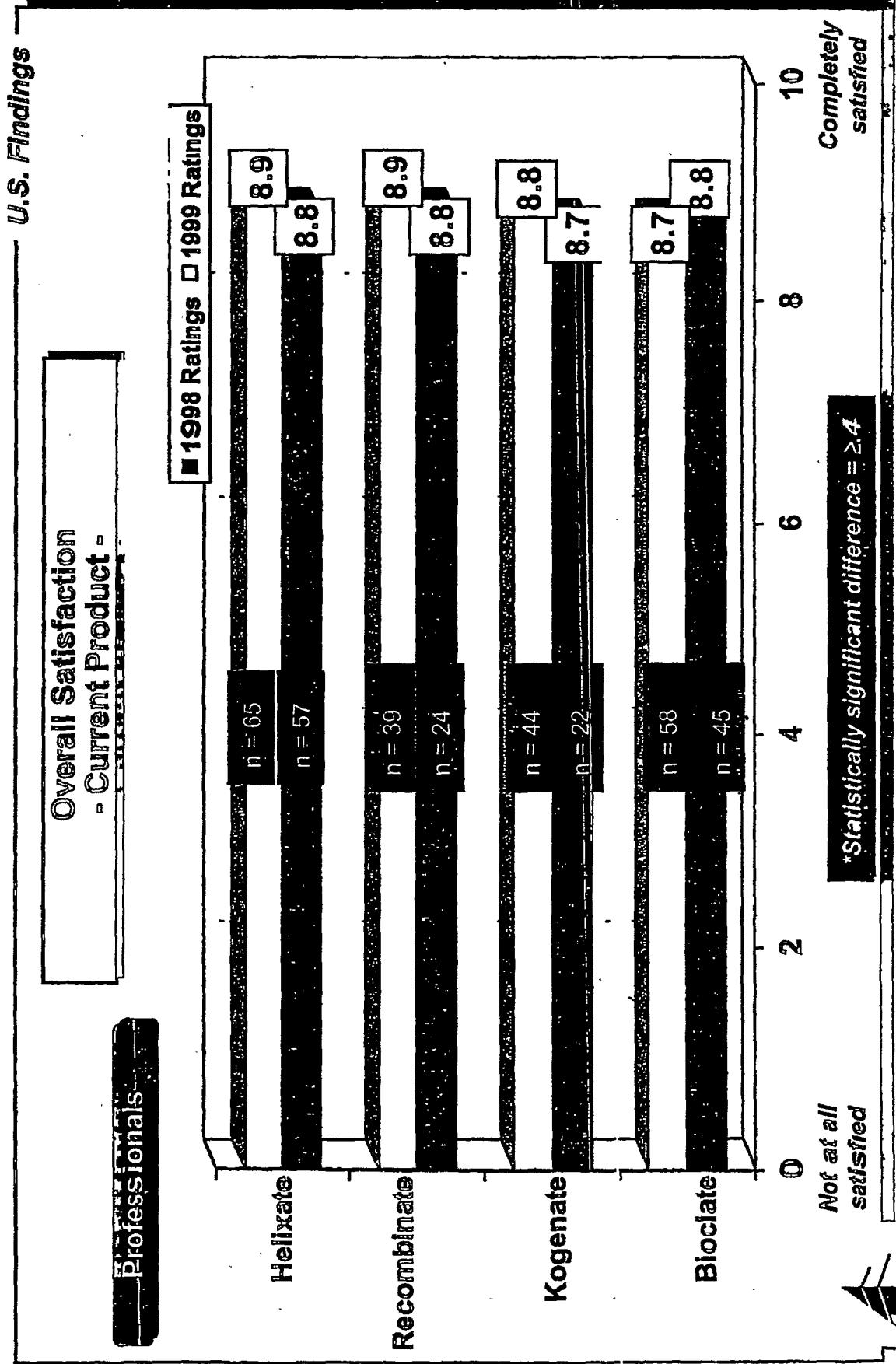


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U.S. professionals satisfaction has changed little since last year, with all products still being viewed as equal overall.

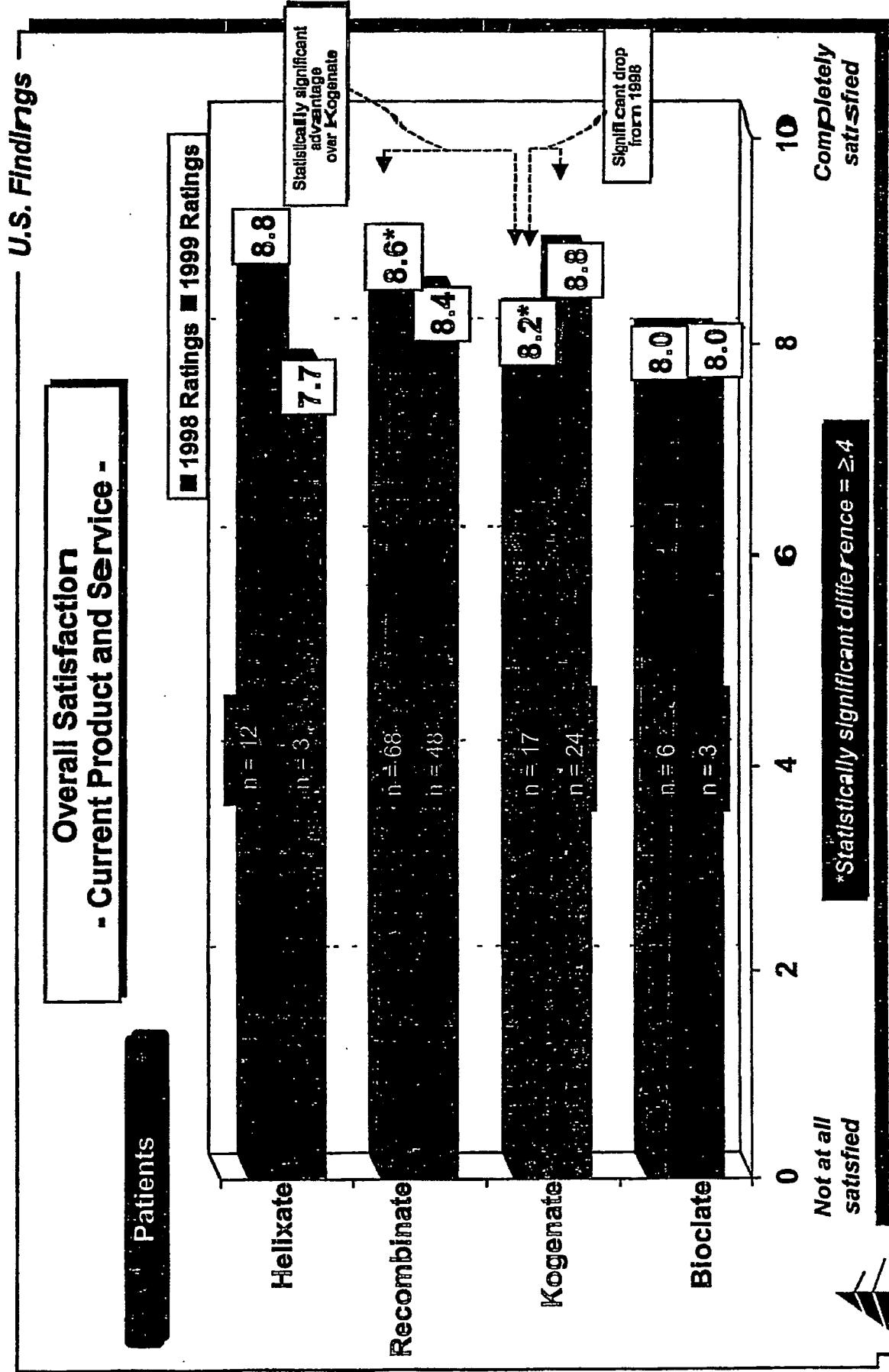


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Patients' satisfaction with Kogenate has dropped since 1998. Recombinate rates significantly ahead of Kogenate.

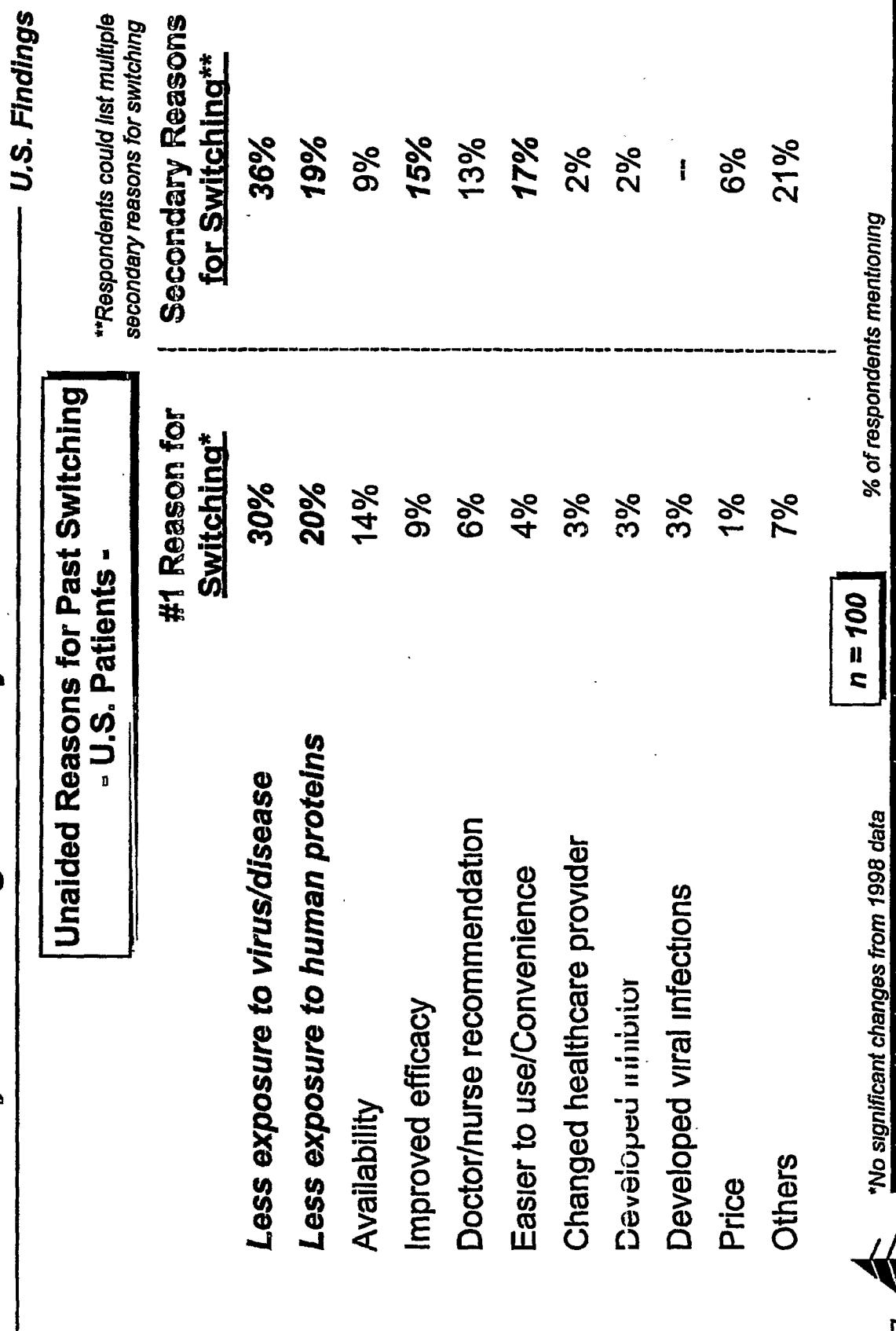


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Improved Viral Safety (both in general and as it relates to human proteins) is clearly the number one driver of switching. Ease of use and efficacy are leading secondary reasons to switch.



U.S. patients rely on both their physician and their own research in their decision to switch products. Physician and nurse influence is greater among younger patients.

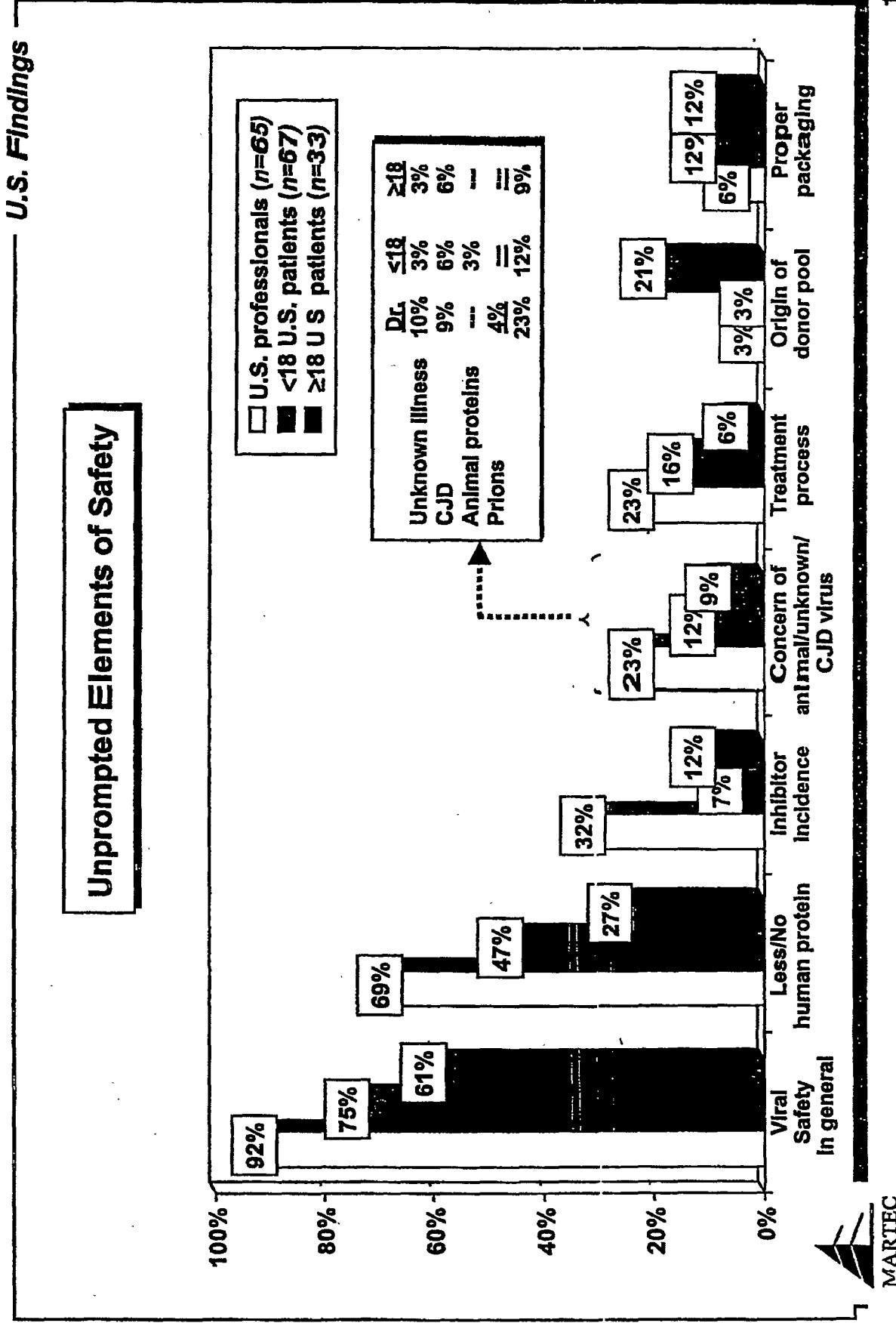
| | <u>U.S. Findings</u> | |
|--------------------------------|--|------------------------------|
| | <u>Past Switching Influencers</u> - U.S. Patients - | |
| | <u>Most Influential</u> | <u>Secondary Influencers</u> |
| Doctor | ≤ 18 | ≥ 18 |
| Doctor | 41% | 29% |
| Own research | 16% | 32% |
| Hemophilia Treatment Center* | 17% | 3% |
| Parents/family | 12% | 3% |
| Other patients | 3% | 12% |
| Nurse | 3% | 9% |
| Hemophilia Society Coordinator | 3% | 9% |
| Home Health Agency | 2% | 3% |
| Pharmacist** | 2% | 0% |
| | <i>n = 67</i> | <i>n = 33</i> |
| | | <i>n = 67</i> |
| | | <i>n = 33</i> |

*Up from 10% in 1998

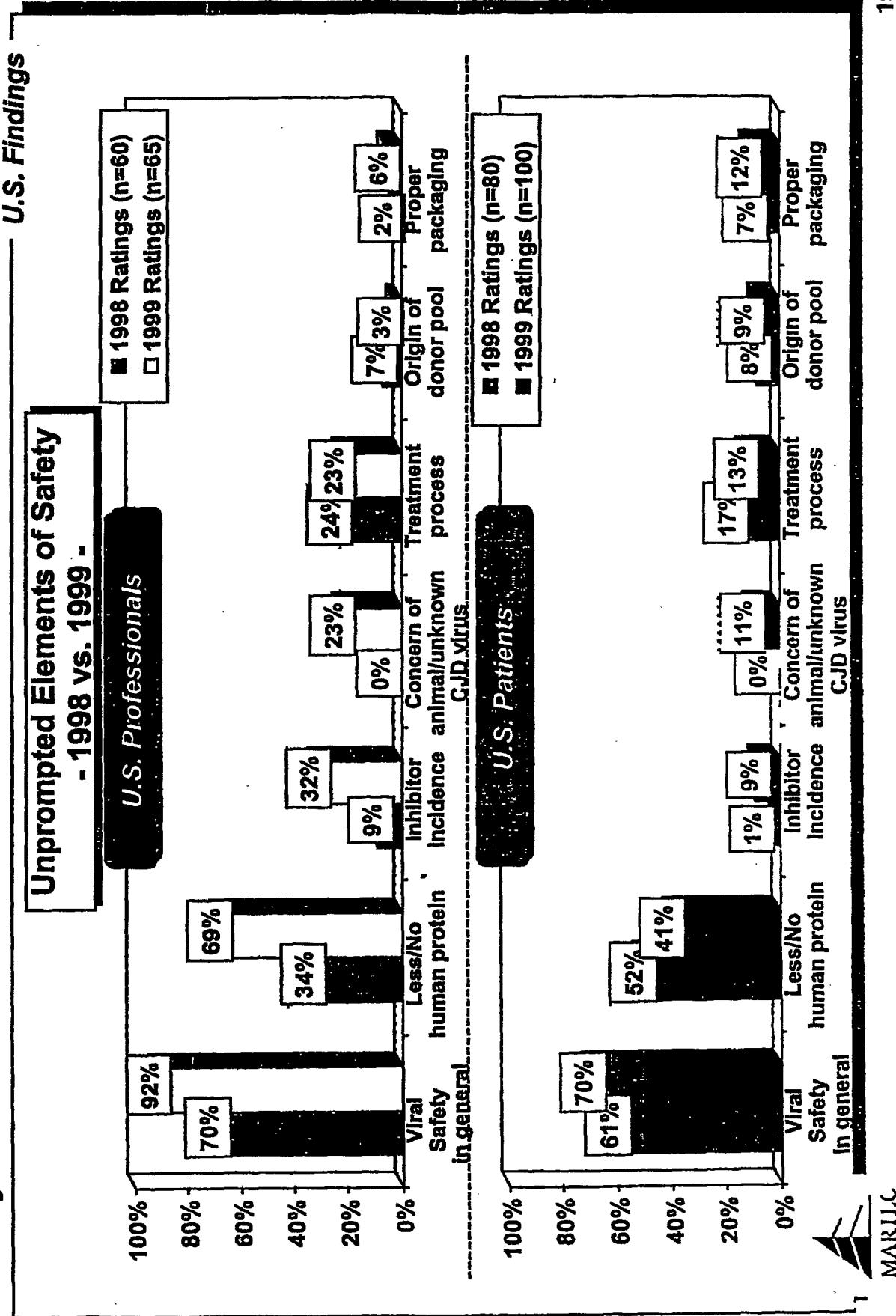
**Down from 10% in 1998

MARILIC

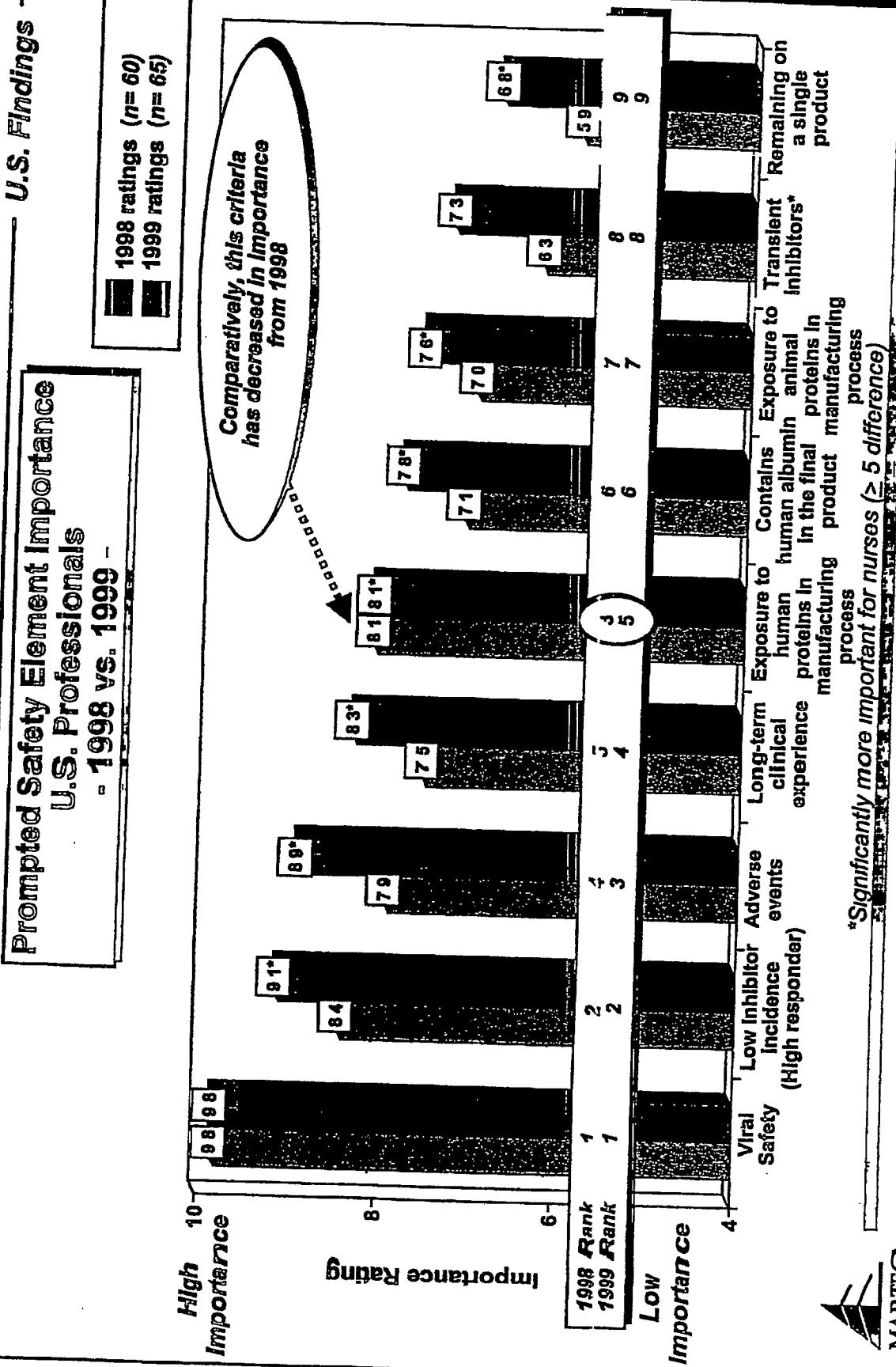
Viral Safety in general is clearly what most respondents think of when they think of product safety.



Viral Safety and Concern of CJD/animal/unknown viral disease were mentioned unprompted by more respondents in the 1999 study.

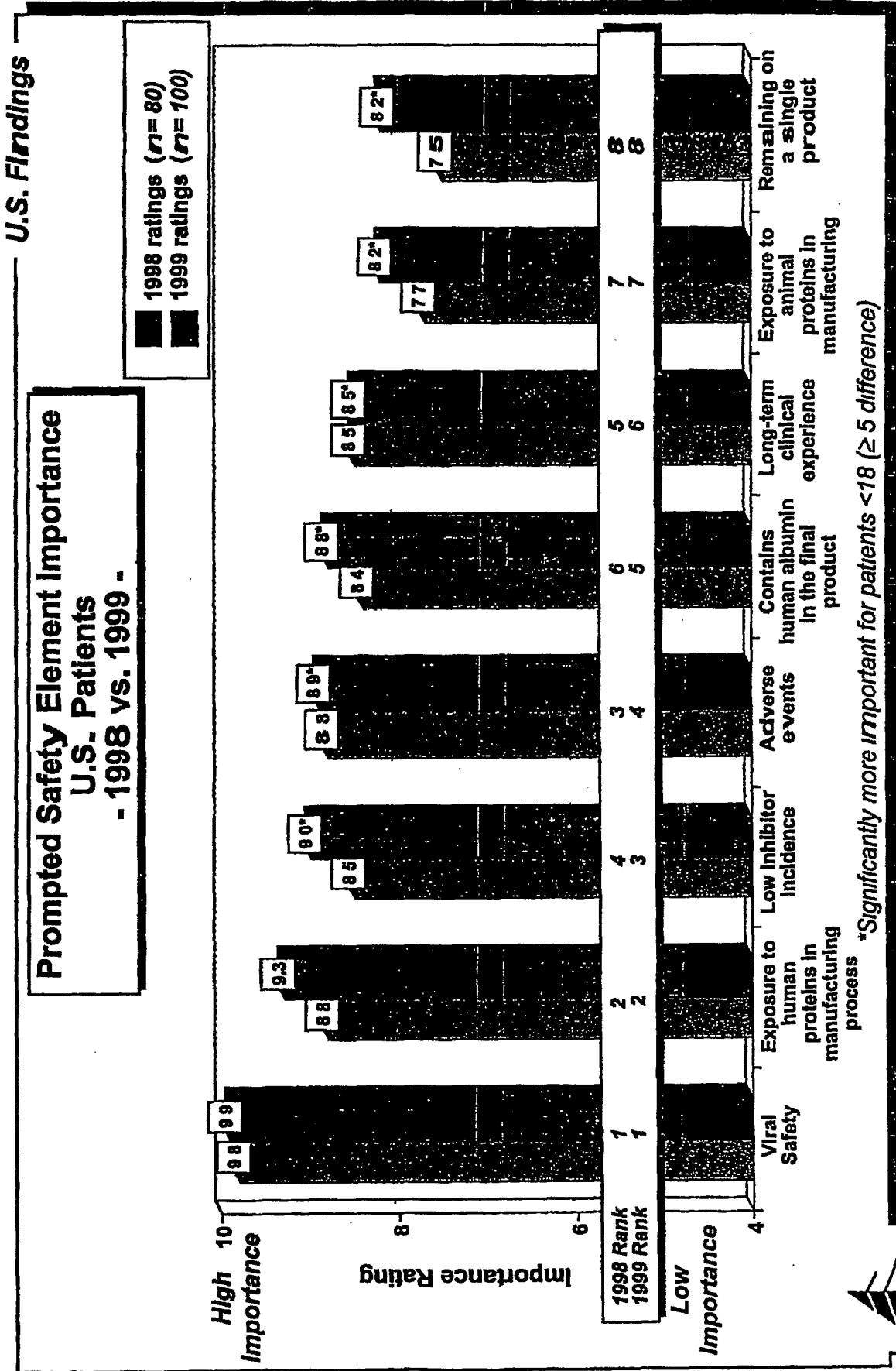


Exposure to human proteins has dropped from 3rd in importance in 1998 to 5th in 1999. The importance of adverse events has increased the most over this period.



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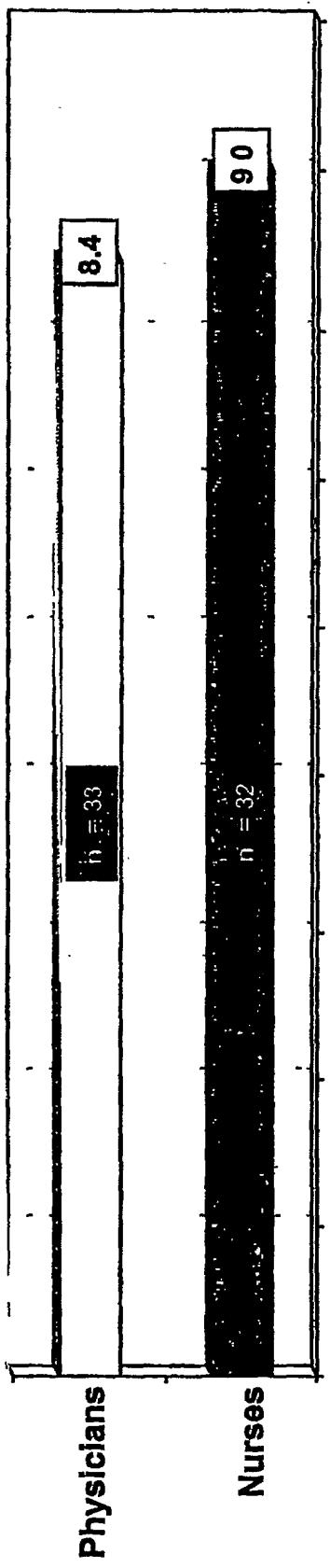
Importance ratings among U.S. patients have increased since 1998, but the comparative ranking of the elements is similar.



U.S. physicians rate the safety of recombinant products lower than nurses. However, physicians typically give lower ratings on all issues, so this difference is likely not significant.

U.S. Findings

Safety Needs of Current Products
- U.S. Professionals -



Does not meet
safety needs

Comments

"There has been no infection from recombinants, but the theoretical risk exists due to human albumin being used as a stabilizer"

"I did not rate it a 10 because of the use of human albumin and inhibitor issues"

"With human albumin in the product, you can't tell a parent that the product is 100% safe" - U S Nurse

"The safety record is excellent, but the risk of infection still exists"

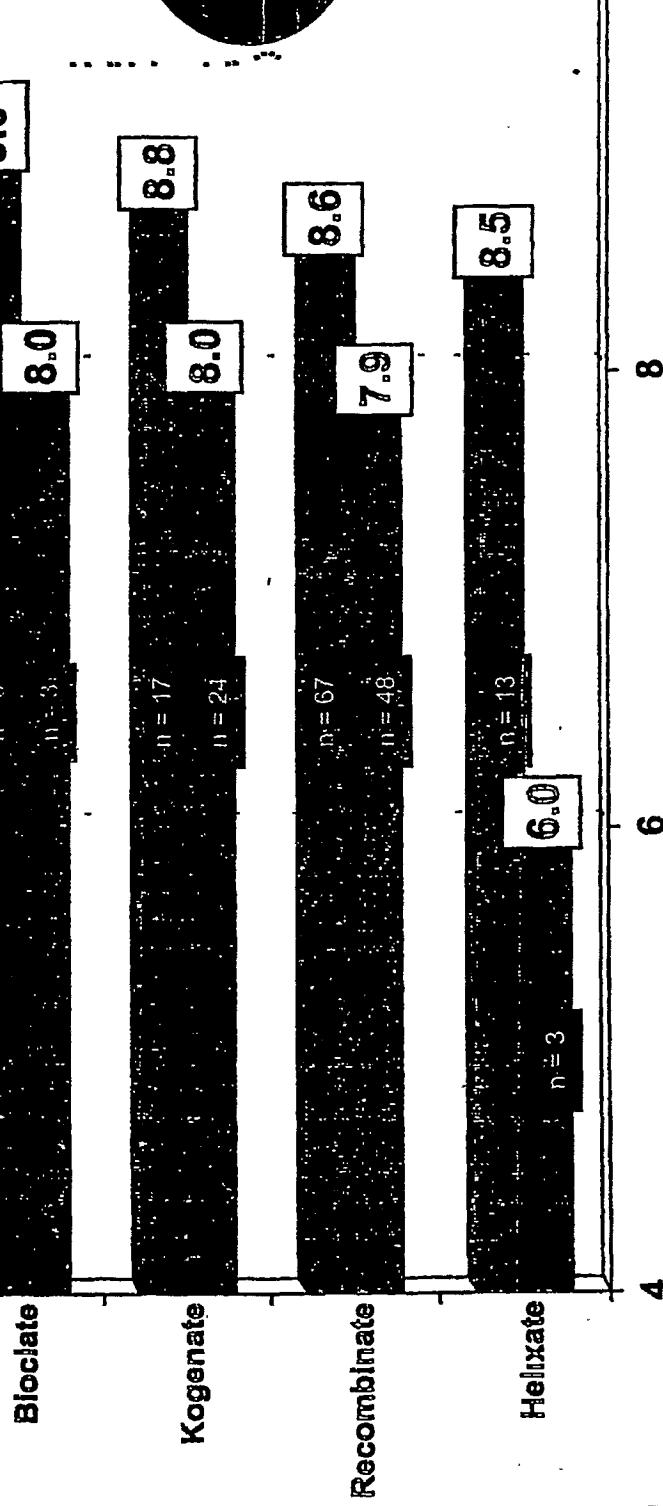


Even with professionals, patients' safety ratings are high, but it's not perfect. However, safety ratings are up for each product over last year.

U.S. Findings

Safety Needs of Current Product
- U.S. Patients -

■ 1998 Ratings ■ 1999 Ratings



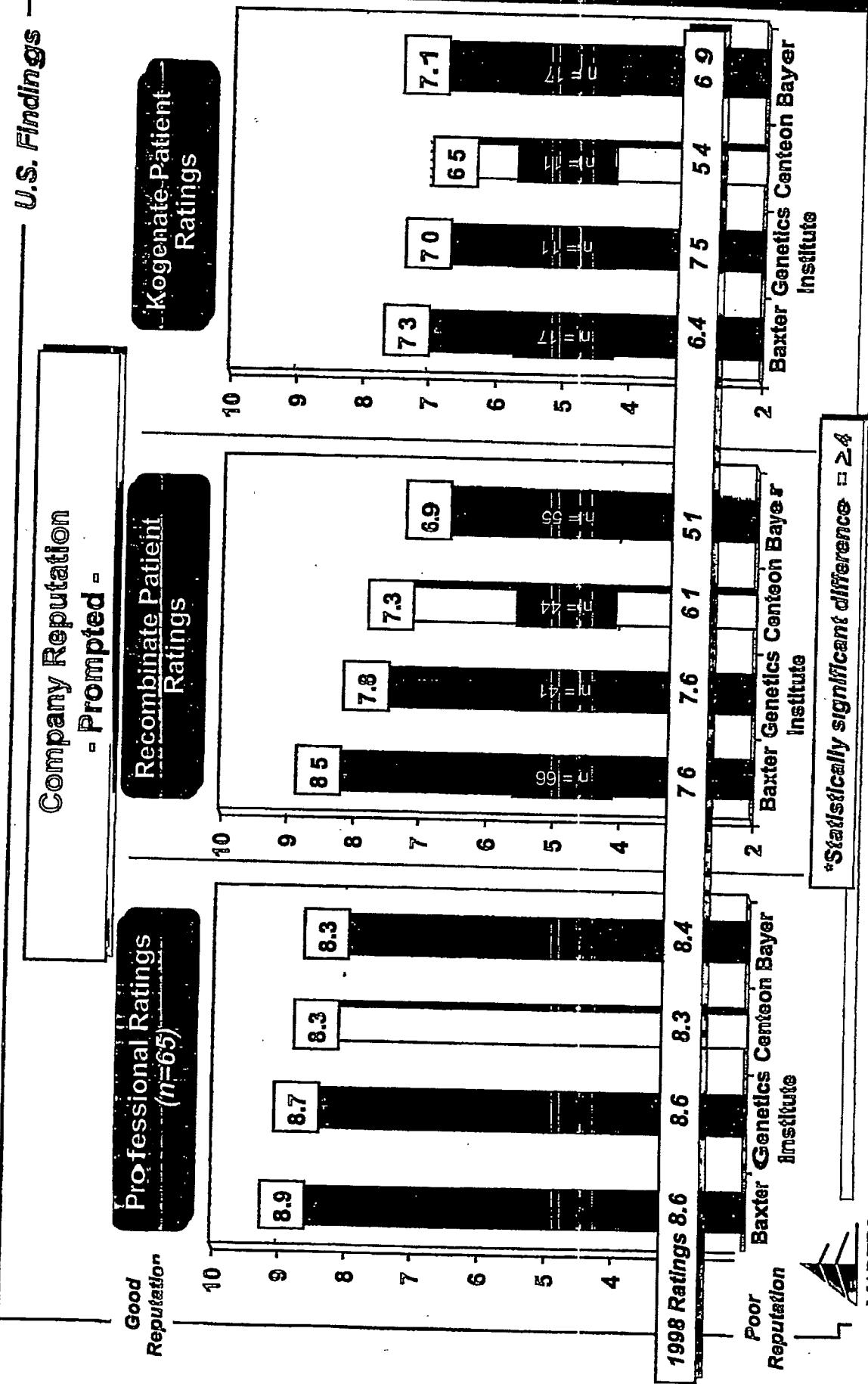
No statistically significant differences between the 1999 ratings

4 6 8 10
Does not meet safety needs
Highly meets safety needs

MARIN C
◀

*Although Bioclate receives a high rating, its sample size is small making the difference not significant

Recombinate users rate Baxter the highest in terms of reputation.
 Professionals rate Baxter and Genetic Institute higher than Centeon and Bayer.



Older patients' opinions are still strongly influenced by the contamination problems of the 1980s.

U.S. Findings

Company Reputation Comments

"I saw a report stating the HIV problems were due greatly to Bayer Baxter gets higher ratings because they checked who they got their supply from." - U.S., ≥18 Recombinate User

"I wasn't happy with Baxter, Bayer and Centeon's role in contaminating so many people, nor how they did not take responsibility. I wish I did not have to get product from them" - U.S., ≥18 Helixate User

"Baxter, Bayer and Centeon were all responsible for transmitting HIV and Hep C in the past GI is now and seems to be handling the community better." - U.S., ≥18 Kogenate User

"Bayer and Centeon have had a lot of problems with their plants and manufacturing GI is on the cutting edge of new technology and having good results I'm happy with Baxter." - U.S., <18 Recombinate User

"Baxter has good R&D Bayer has problems with availability Centeon took a hit in prestige when it closed its plant for quality control reasons GI has problems with incorrect dosing recommendations" - U.S Physician

"In the last year Baxter had no shut-downs or recalls Centeon and Bayer have had recent shortages We had patients get sick on GI's Benefit" U.S Nurse

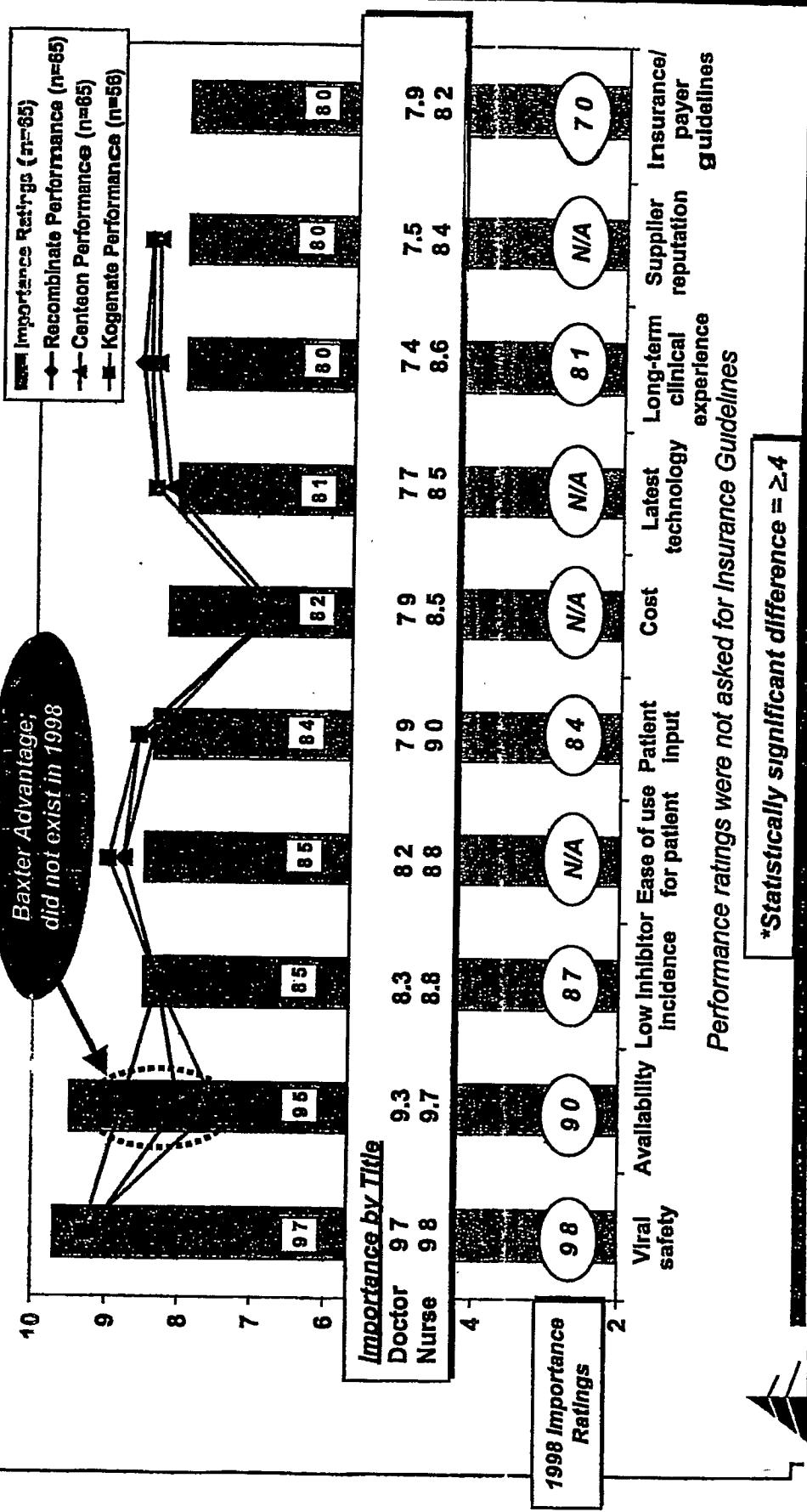
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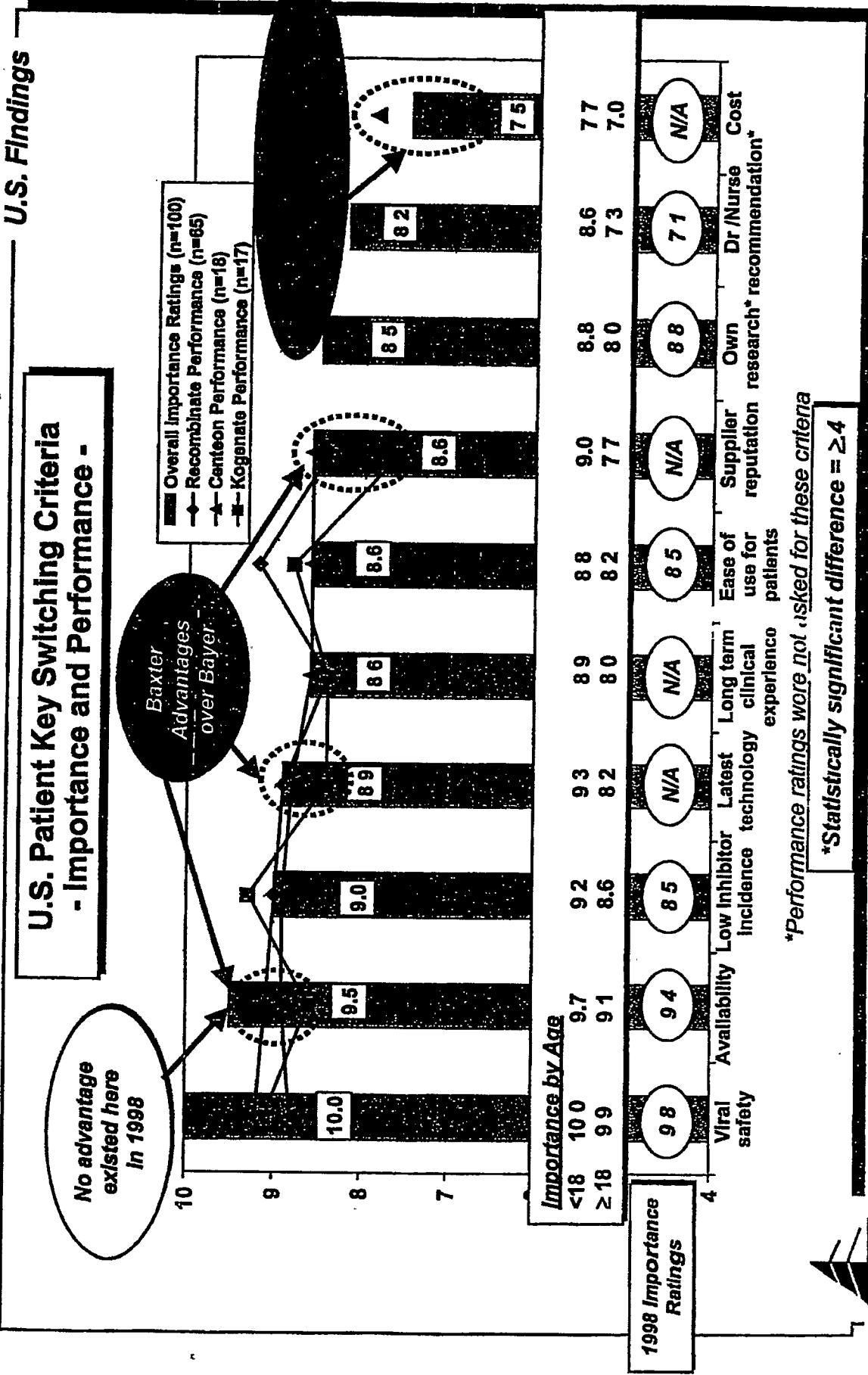
GH001130

Outside of Baxter's lead in Product Availability, professionals view all U.S. suppliers as equal performers on all other key switching criteria.

**U.S. Professional Key Switching Criteria
- Importance and Performance -**



Recombinant users rate Baxter significantly higher ($\geq .4$) than Kogenate users rate Bayer in Availability, Latest Technology and Supplier Reputation. Centeon leads in Cost perception.



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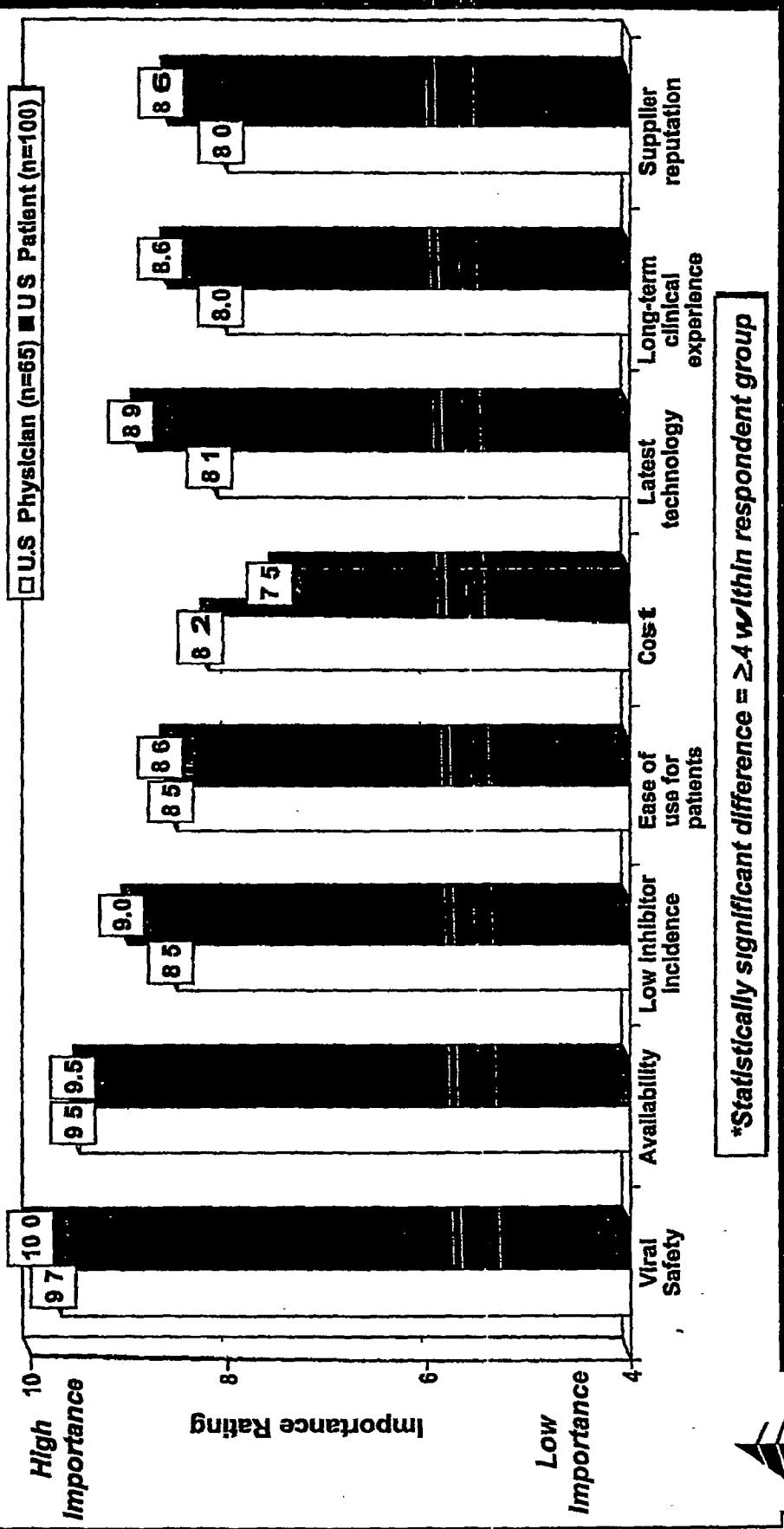
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Viral Safety, availability and low inhibitor incidence rank as the top three criteria for U.S. physicians and patients. Beyond these criteria, opinions differ about what is important.

U.S. Findings

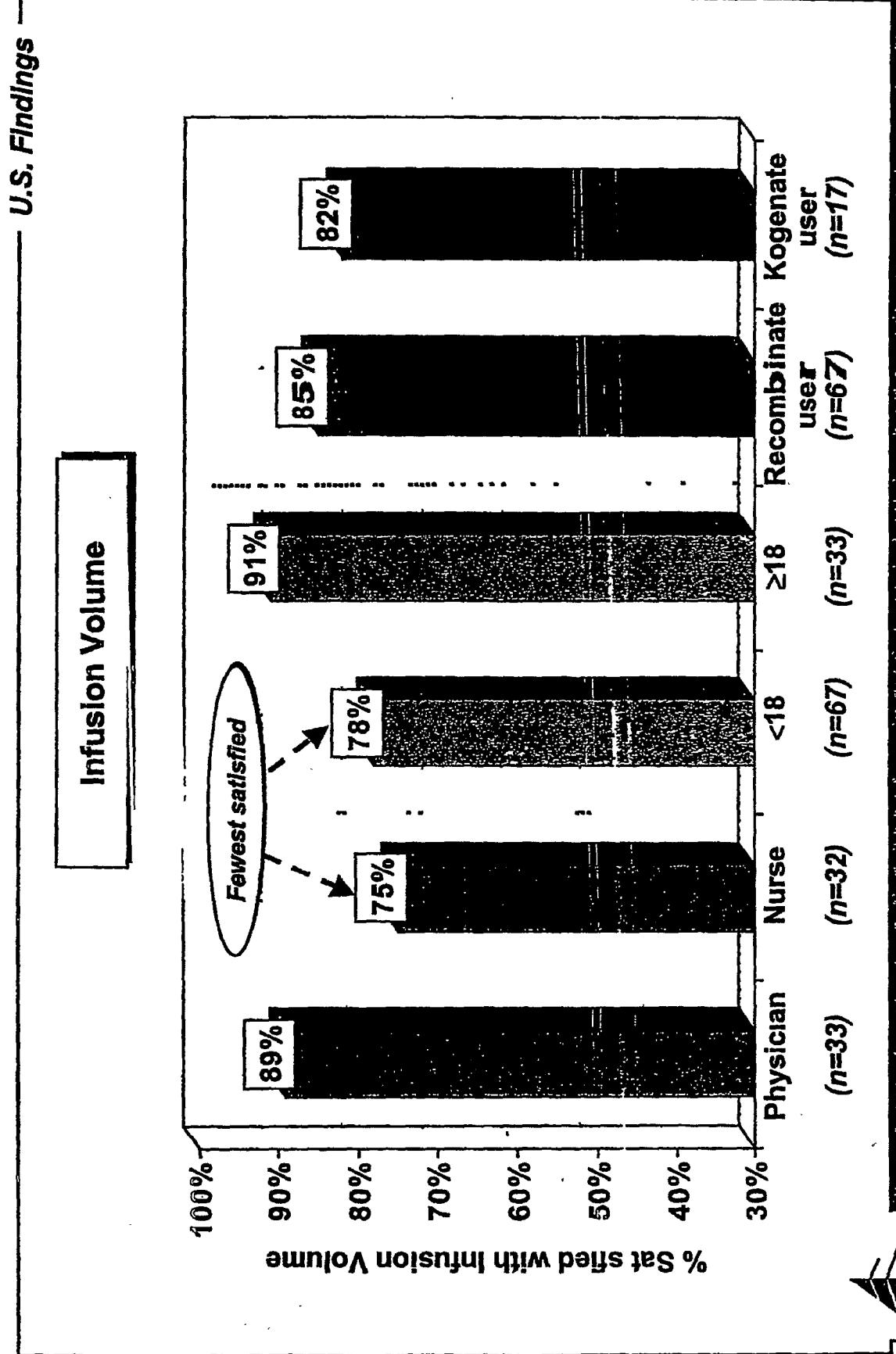
**Key Switching Criteria Importance
- U.S. Physician vs. U.S. Patient -**



Other criteria were mentioned by more than 10% of responder's. However, the availability of educational information was most often mentioned by three of the four segments.

| | U.S. Findings | | |
|--------------------------------------|---------------|--------|--|
| | Physicians | Nurses | ≤18 ≥18 |
| Education to patients | 9% | 9% | Education to patients 9% 0% |
| Range of potencies | 6% | 6% | Syringe system/application method 6% 3% |
| Efficacy | 3% | 3% | Ease of mixing 4% 6% |
| Adverse events | 3% | 3% | Efficacy 4% 0% |
| Syringe system/application method | 0% | 6% | Covered by insurance 4% 0% |
| | | | Infusion volume 3% 3% |
| | | | n = 33 |
| | | | n = 32 |
| | | | n = 67 |
| | | | n = 33 |

Fewer younger, and hence smaller, patients are satisfied with the Infusion Volumes of current products.



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While most respondents are satisfied with the current infusion volumes, there is a need for a minimum volume size of 5 milliliters.

U.S. Findings

Infusion Volume Improvement Comments

Most complaints related to too high of volumes...

U.S. Professionals

"Ten ml is fine for most patients, but 5 ml is needed for pediatric patients"

"Don't go less than 5 ml or you will leave too much product in the tubing and under dose"

"I believe 0.8 ml is typically left in the tubing. Therefore, with a 2.5 ml vial, one-third of the product does not get into the patient"

U.S. Patients

"Ten mils is too much to put into my child. Going with 5 ml is much more tolerable."

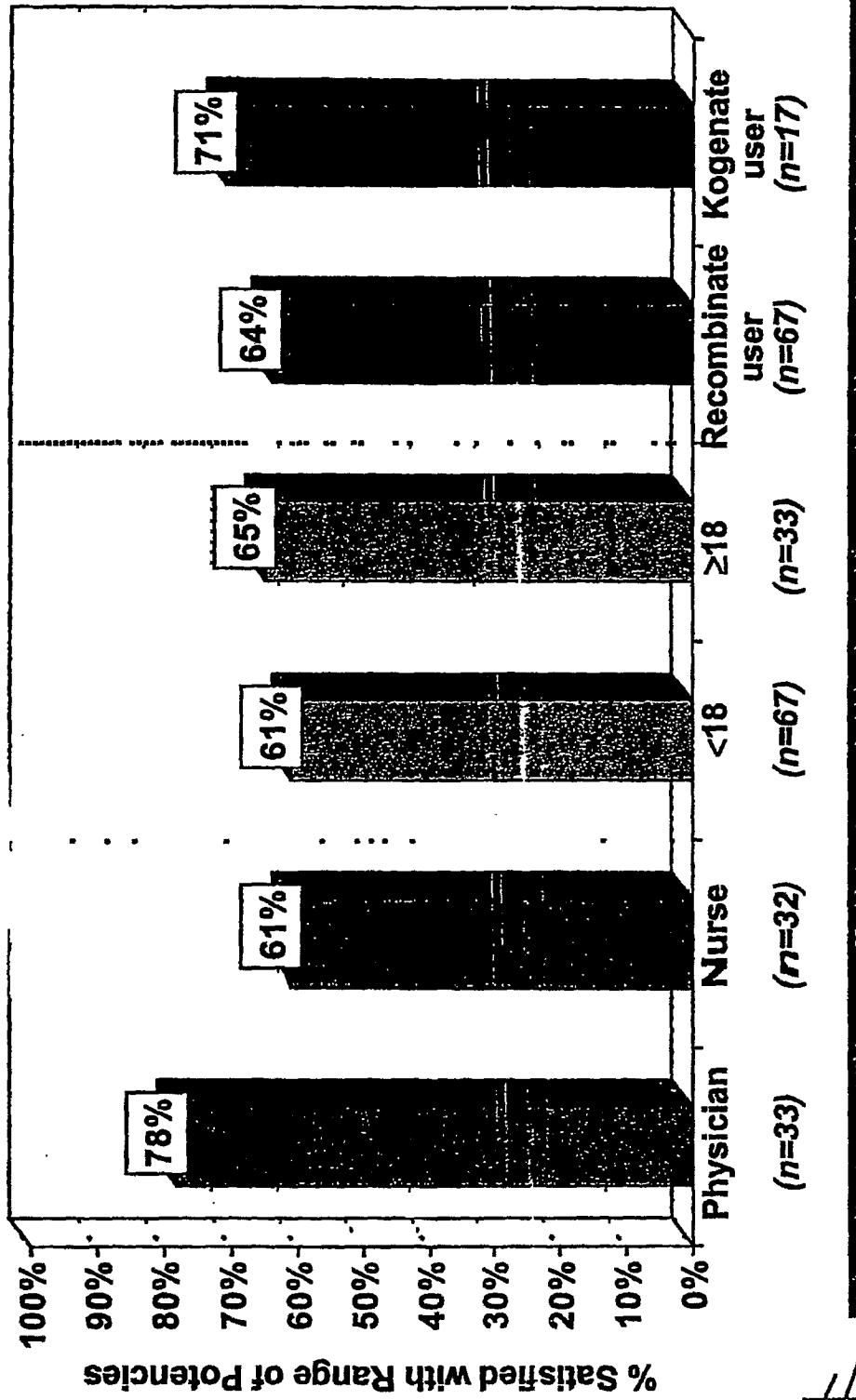
"Less volume would be desired"

"The infusion volume of recombinant products is a vast improvement over plasma-derived products."

Within all segments, fewer respondents are satisfied with the Range of Potencies than with the Infusion Volumes of current products.

U.S. Findings

Range of Potencies



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Respondents express a need for a greater variety of potencies to better match their dosing needs.

| | | <i>U.S. Findings</i> | |
|---|---------------------|--|---------------------|
| | | <i>U.S. Patients</i> | |
| | | <i>≤18</i> | <i>≥18</i> |
| <i>U.S. Professionals</i> | | | |
| Need more variety of potencies (150 IU, 750 IU) | 19% | Need more variety of potencies (150 IU, 750 IU) | 30% 24% |
| Need lower potencies (50 IU) | 18% | Need higher potencies (1500 IU + up) | 14% 26% |
| Need higher potencies (1500 IU + up) | 4% | Need lower potencies (50 IU) | 7% 3% |
| Need better availability of current ranges | 1% n = 65 | Need better availability of current ranges | 1% n = 67 |
| | | <i>U.S. Patients</i> | |
| | | <i>≤18</i> | <i>≥18</i> |
| "The range is fine, but there never seems to be enough of the smaller unit size (50 & 100) vials available" | | "I need a greater range of choices so I don't have to waste so much Especially, since it is so expensive" | |

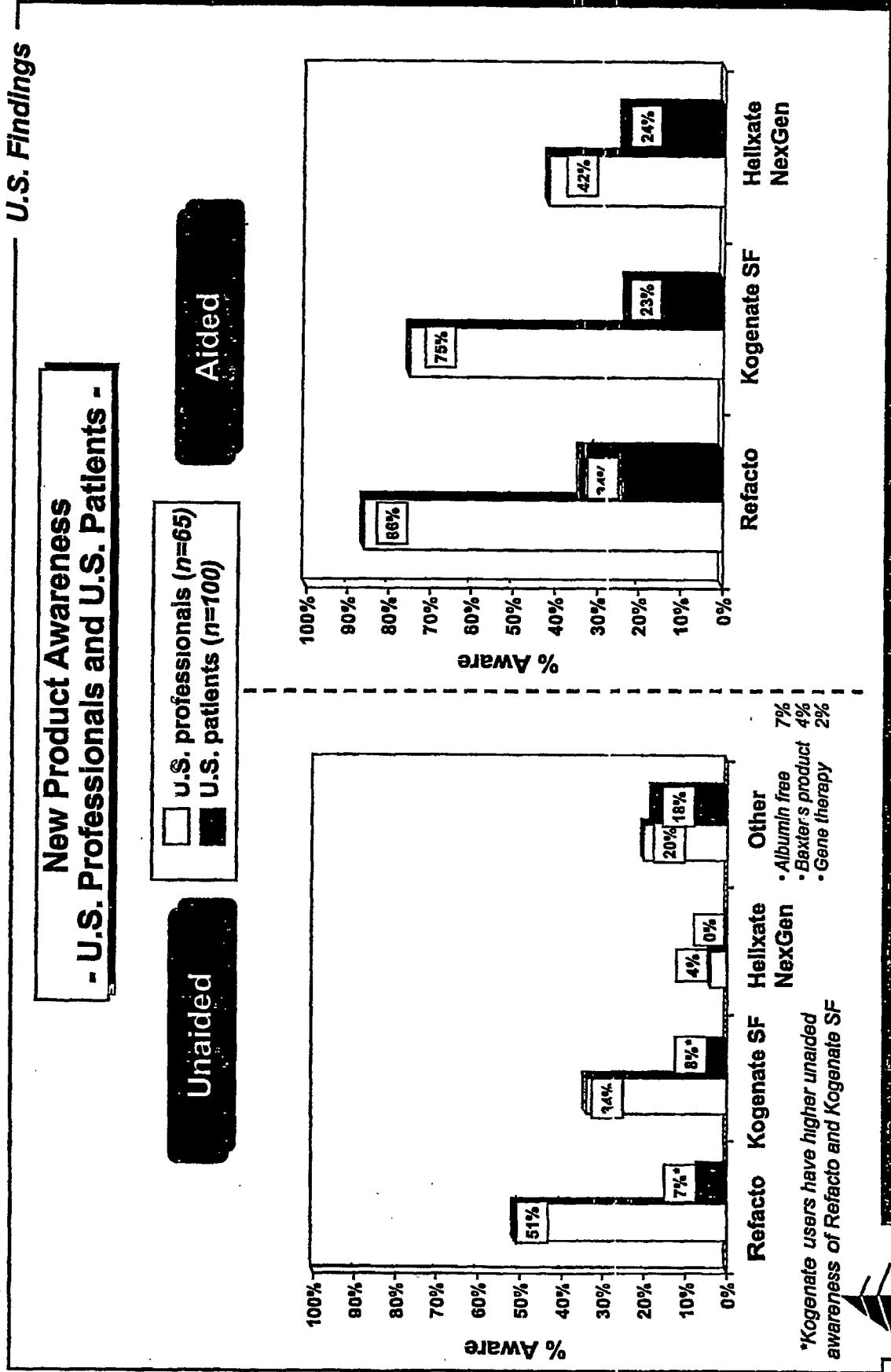


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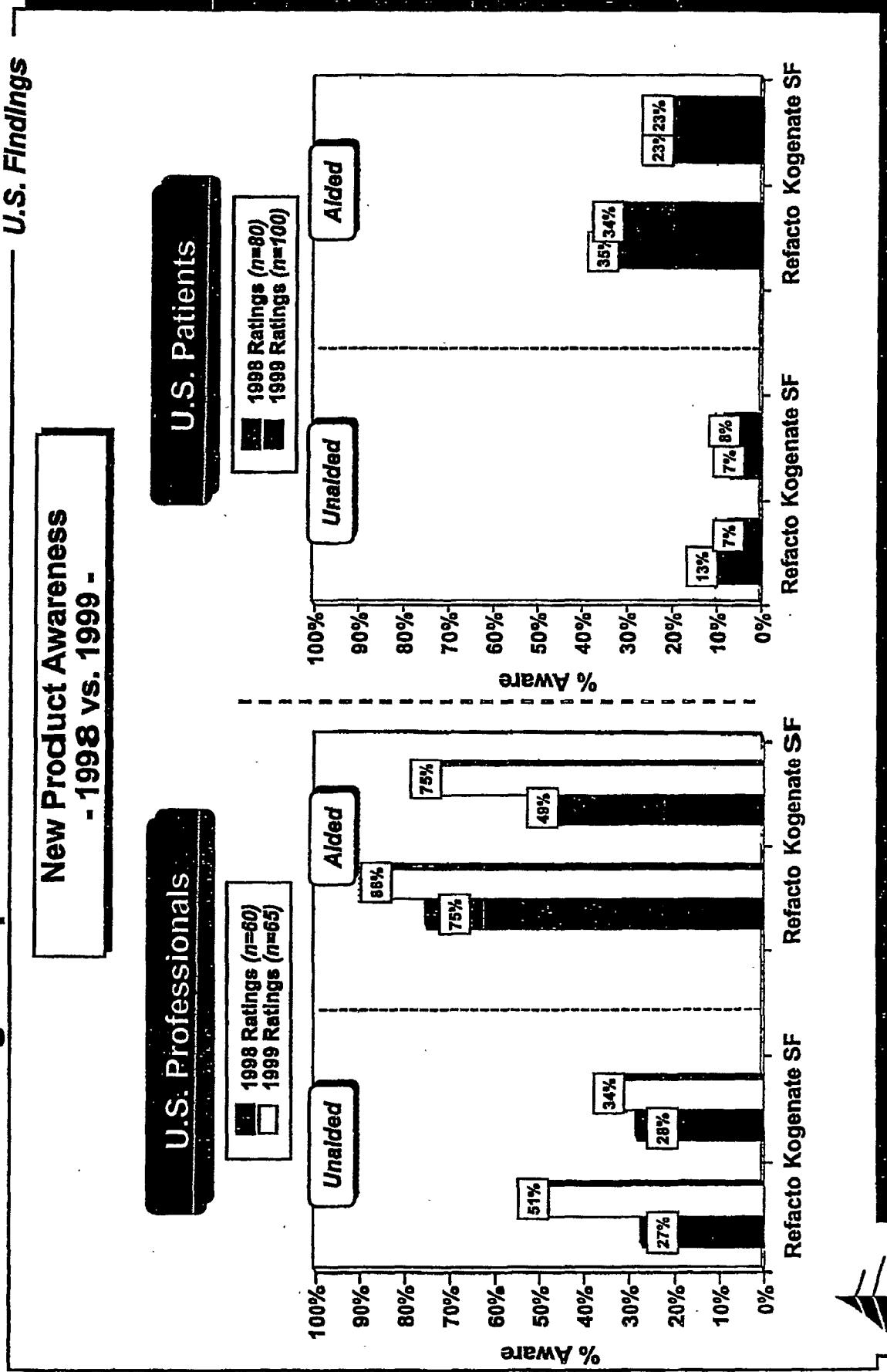
33

SH001138

Refacto had the highest level of awareness, both unaided and aided.



Awareness among U.S. professionals of both Refacto & d
Kogenate SF has increased from 1998. Awareness has remained
constant among U.S. patients.



A large number of U.S. professionals believe that the next generation products will be Albumin Free.

**Current Knowledge of New Products
- U.S. Professionals -**

Kogenate SF

Refacto

Helixate NexGen

U.S. Findings

| | | | | | |
|---|------|----------------------------------|------|----------------------------------|-----|
| Albumin free | 34%* | • <i>Albumin free</i> | 37%* | • No answer | 57% |
| Less albumin | 29%* | • B-domain deleted | 30%* | • <i>Albumin free</i> | 13% |
| No answer | 27% | • Less albumin | 17% | • Heard of, but nothing specific | 11% |
| Heard of, but nothing specific | 14% | • In trials/coming out soon | 17% | | |
| Sugar as stabilizer | 16% | • No answer | 17% | • Same as Kogenate SF | 10% |
| In trials/coming out soon | 14% | • Heard of, but nothing specific | 11% | • Less albumin | 7% |
| Added viral inactivation | 9% | • Different assay required | 10% | • In trials/coming out soon | 7% |
| <i>*Significantly higher %'s than in 1998</i> | | | | | |
| <i>% of respondents mentioning</i> | | | | | |

36
GH001141

MARTEC

Typically, U.S. patients knew little about the new products coming to market.

| U.S. Findings | |
|----------------------------------|-----------------------------|
| | % of respondents mentioning |
| Kogenate SF | |
| • No answer | 88% |
| • Heard of, but nothing specific | 10% |
| • Albumin free | 6% |
| • Less albumin | 5% |
| • In trials/coming out soon | 5% |
| • Synthetic product | 4% |
| • Different assay required | 1% |
| Refacto | |
| • No answer | 68% |
| • Heard of, but nothing specific | 15% |
| • Albumin free | 9% |
| • In trials/coming out soon | 4% |
| • Not FDA approved yet | 3% |
| • Less albumin | 2% |
| Hollixate® NexGen | |
| • No answer | 89% |
| • Heard of, but nothing specific | 12% |
| • Albumin free | 3% |
| • Same as Kogenate SF | 2% |
| • Less albumin | 1% |

*No significant changes from 1998

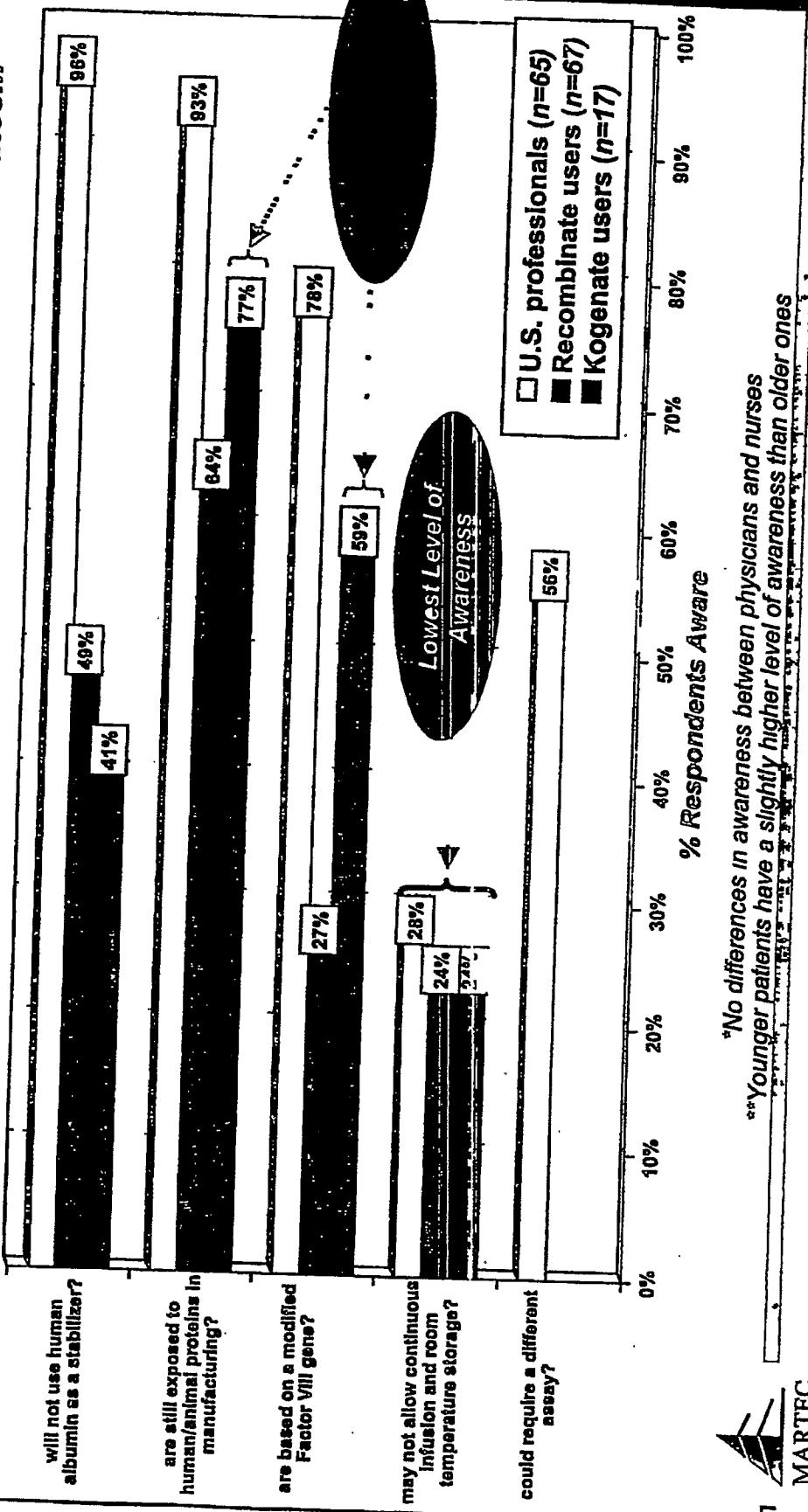


Few respondents were aware of ... may not allow continuous infusion and room temperature storage.

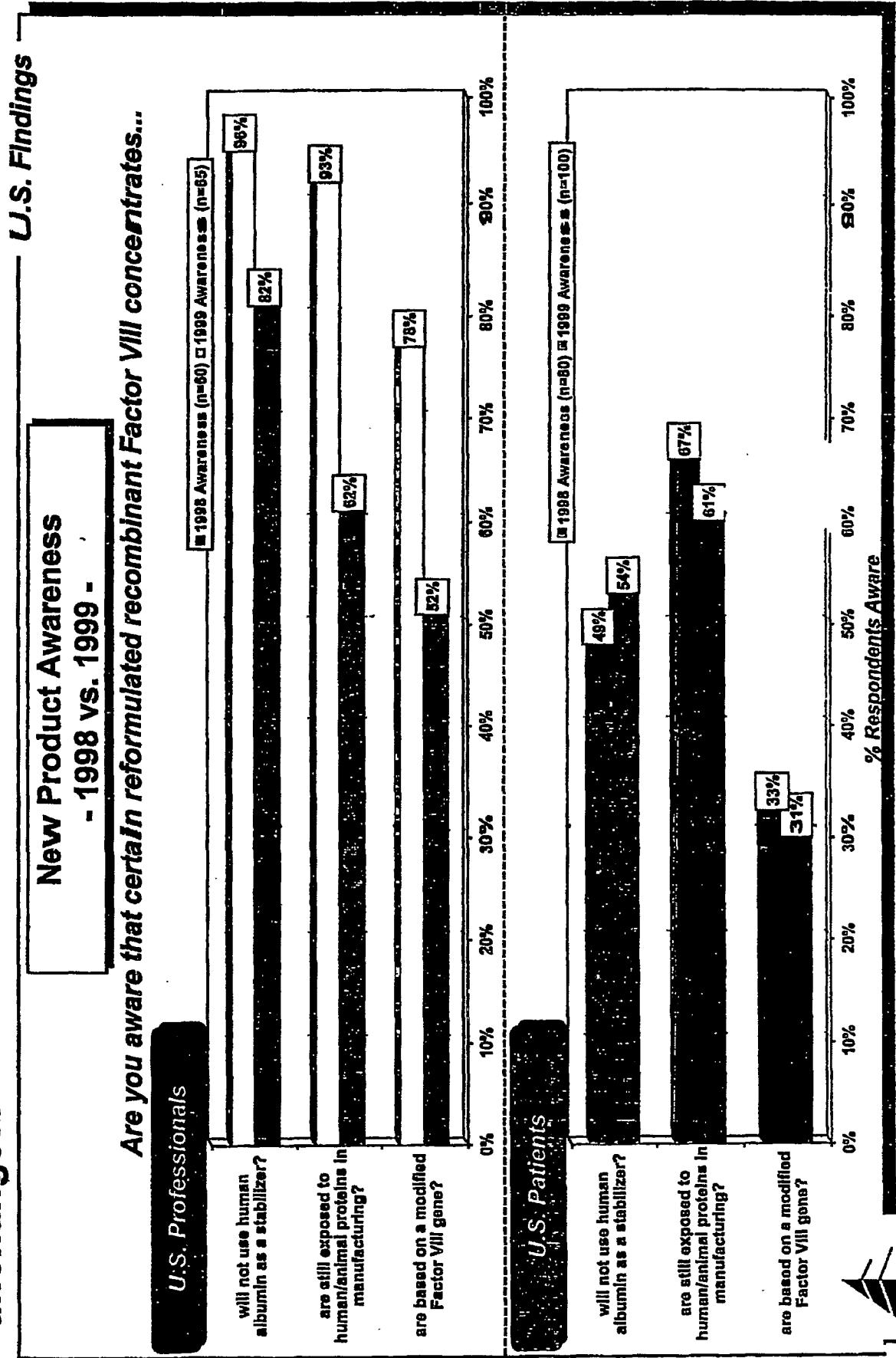
U.S. Findings

New Product Awareness
= U.S. Professional* and Patient** =

Are you aware that certain reformulated recombinant Factor VIII concentrates...



Professionals' awareness of these issues has increased significantly from last year, while patients' awareness is basically unchanged.

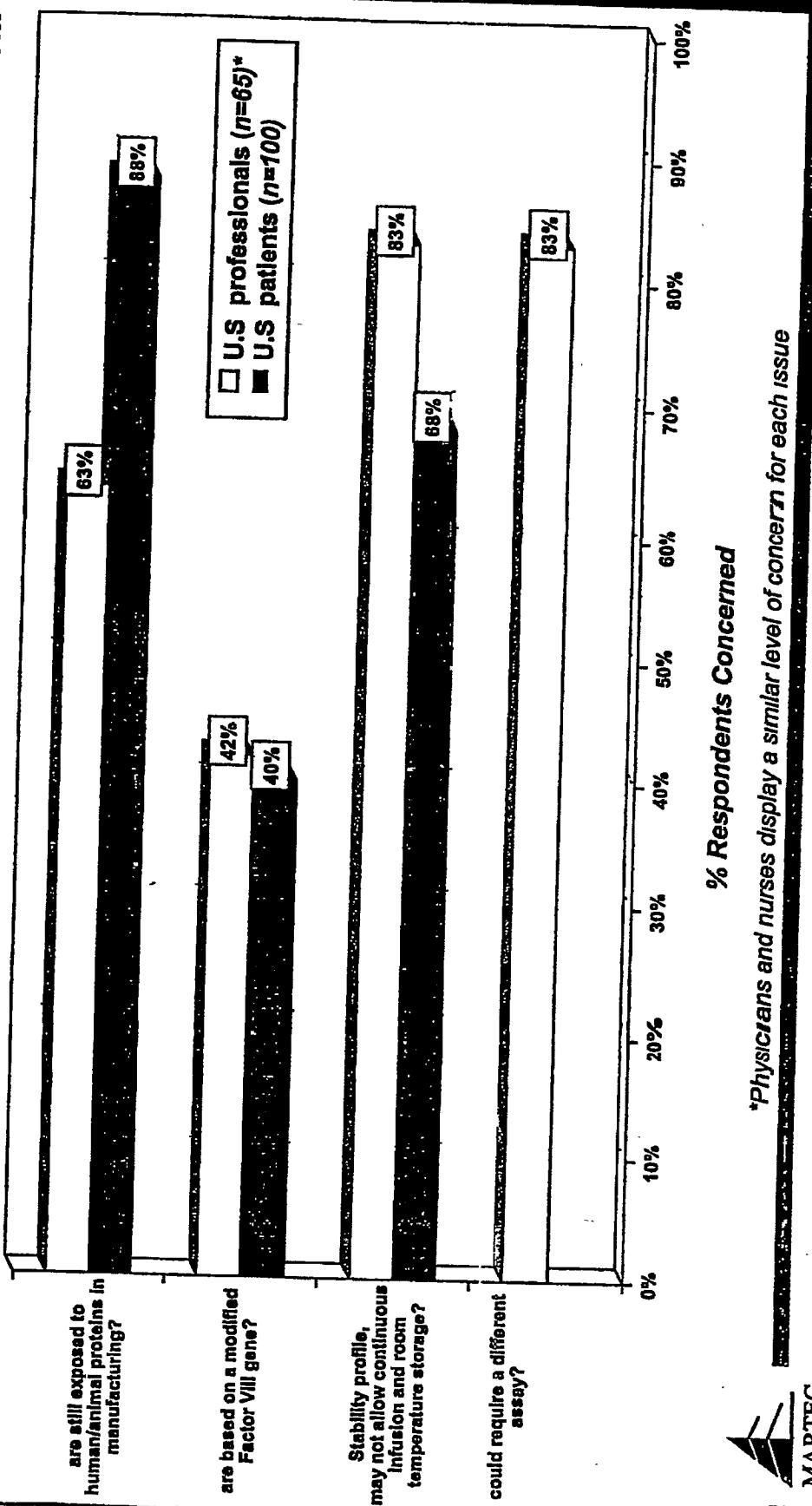


U.S. patients are most concerned about **exposure to human/animal proteins**. U.S. professionals are most concerned about **stability profile** and requiring different assays.

U.S. Findings

New Product Concerns

Is it a concern to you that certain reformulated recombinant Factor VIII concentrates...



*Physicians and nurses display a similar level of concern for each issue

MARTEC

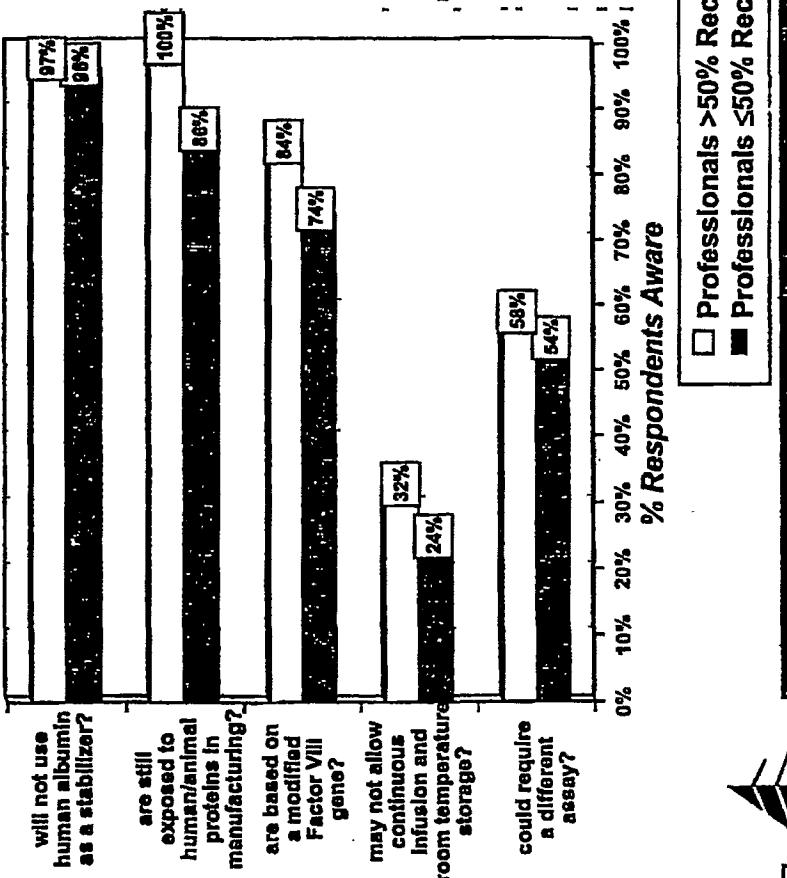
40
GH001145

"Baxter Friendly" professionals awareness of these issues is slightly higher than other professionals'.

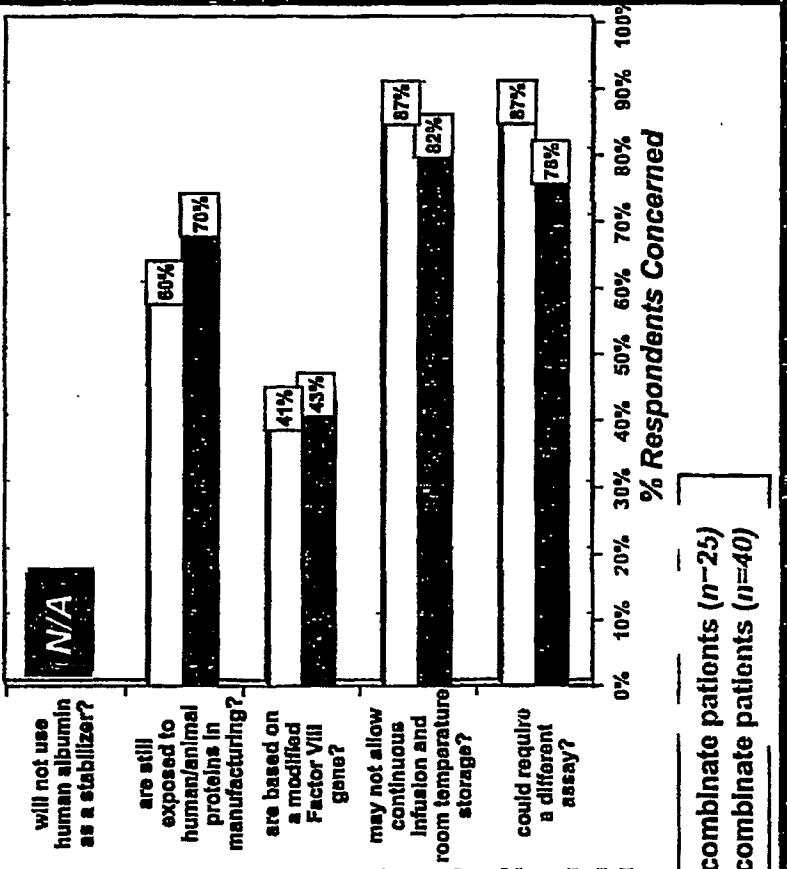
U.S. Findings

New Product Awareness and Concern - Baxter Friendly Physicians vs. Others -

Are you aware that certain reformulated recombinant Factor VIII concentrates...



Is it a concern to you that certain reformulated recombinant Factor VIII concentrates...



41

MARTIN

SH001146

Comments support U.S. respondents' concerns...

U.S. Findings

New Product Concerns

Comments/Quotes

"Not stabilizing with albumin will lessen the exposure to human proteins and make it a safer product."
- U.S Physician

"We don't know for sure if we are transmitting human or animal viral diseases Slow viruses may not show up for years. So, to be safe it is better without this exposure" - U S Physician

"Anytime there is something human or animal in the product there is a concern we can catch a virus"
- U S., <18 Recombine User

"Removing the B-domain has not effected efficacy. We are waiting for the test results on inhibitor formation"
- U.S Physician

"I would hate to have to refrigerate I travel a lot and enjoy my freedom This would be a step backwards"
- U S , ≥18 Kogenate User

"Continuous infusion is a very important therapy, especially for inhibitor patients Having it for an option is important"
- U S Physician

"The different assays would cause problems The labs will be confused because they won't know what brand is used Plus it would be very costly to switch reagents and equipment"
- U S Physician

MARTEC

42

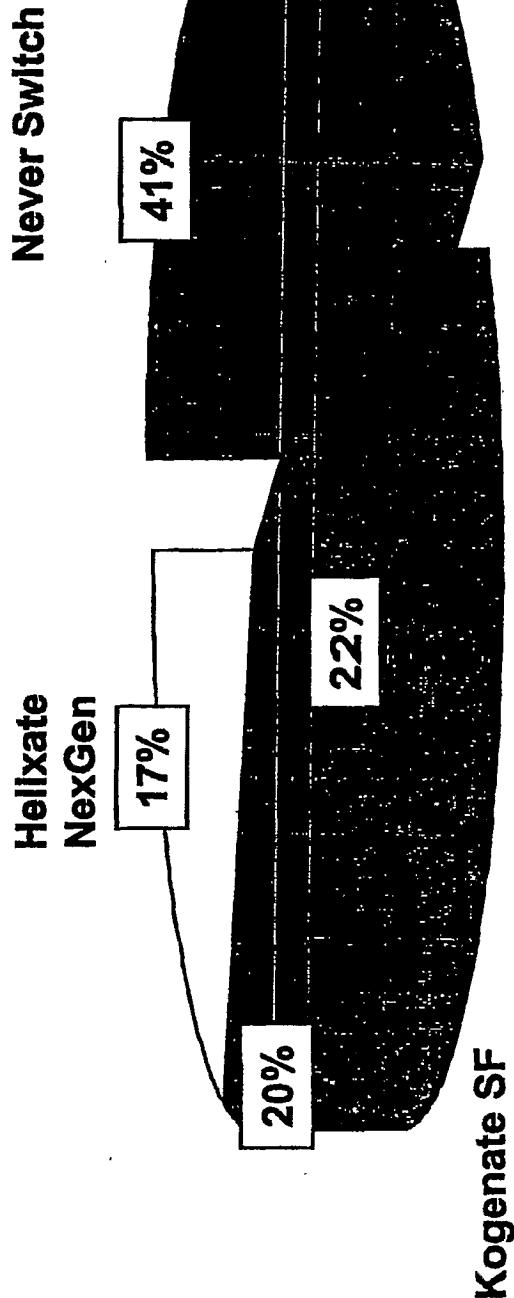
PH001147

C coverage, U.S. professionals expect 41% of their patients not to switch to a reformulated product. No product is significantly more likely to be the product of choice for those that do switch.

U.S. Findings

What % of Patients Will Switch to Each Product?

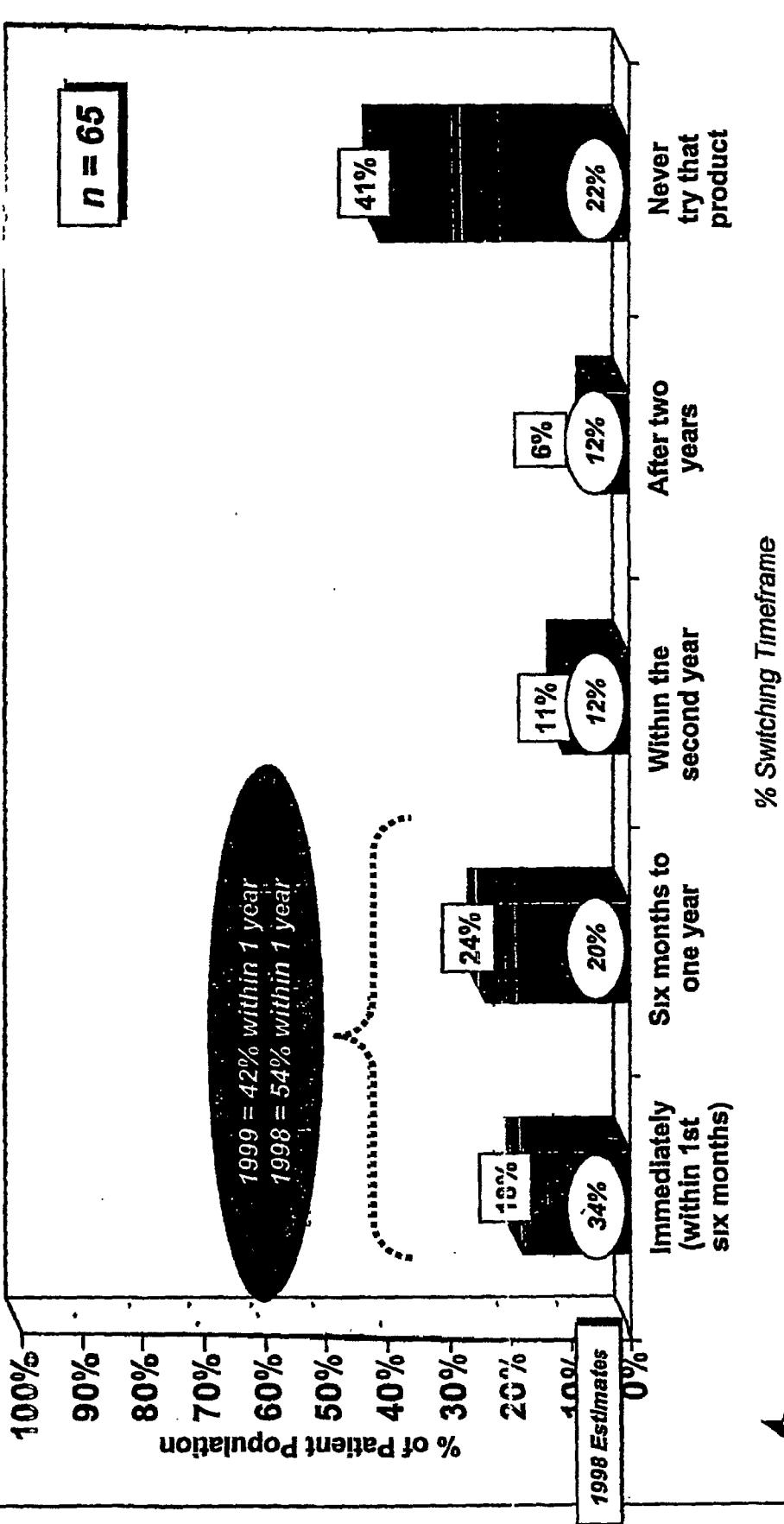
-U.S. Professionals -



n = 65

U.S. professionals expect fewer patients to switch to a reformulated product now (59%) than they did last year (78%). Fewer are also expected to switch immediately.

U.S. Professionals Switching Timing to a Reformulated Product



A variety of factors will influence switching timing.

U.S. Findings

U.S. Professionals Switching Timing

- Explanations -

Comments/Quotes

"The reformulated products are not a huge advancement They'll be more expensive, plus people are loyal to their current products Only those looking for and willing to pay for the latest and greatest technology will switch immediately"

- U S. Physician

"We wouldn't switch patients until we see them in the clinic. I can't see 150 patients immediately so it won't be a wholesale change over"

- U S Physician

"People are very satisfied with their current products This will allow them to wait and see how well other patients react to the new products before deciding to switch" - U S Physician

"Whichever product is available first will become popular Our patients are well informed, some will switch right away and others will wait and watch"

- U S Nurse

"I think we'd wait at least a year or more to see what happens Even the switch to recombinants, where there was a very clear advantage, was lengthy"

- U S Nurse

 MARIIC

Kogenate SF is the reformulated product U.S. patients would most likely try. This preference is particularly strong among current Kogenate users.

U.S. Findings

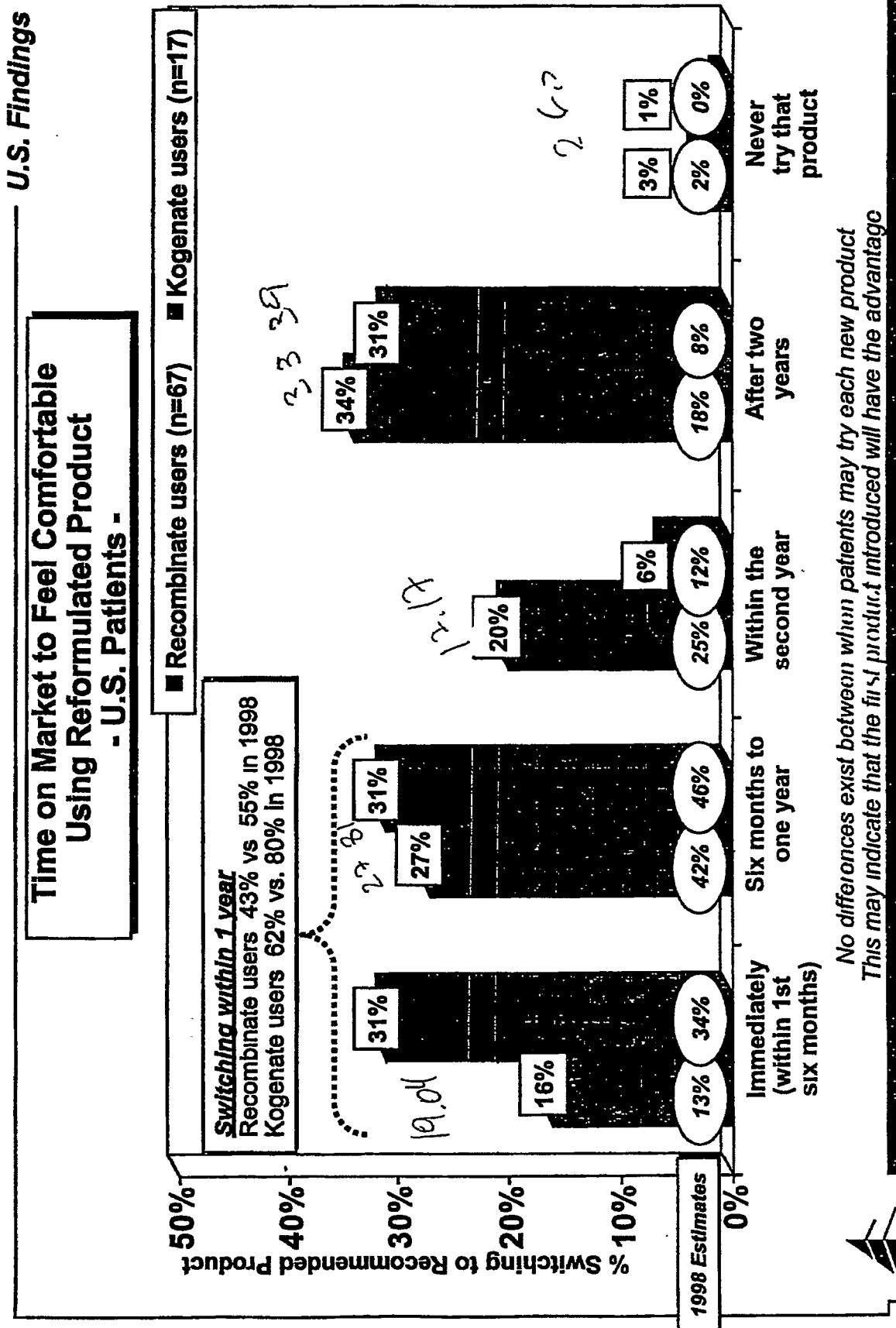
Reformulated Product Most Likely to Try - U.S. Patients -

MAJEC

G-H00115-1
46



Kogenate users are more likely to switch to a reformulated product within the 1st year. However, both patient groups this year report a lower likelihood of switching within one year than last year.



Differing comments support the range of answers regarding patients' switching timing decisions.

U.S. Findings

U.S. Patients Switching Timing

- Explanations -

Comments/Quotes

"I would be willing to try the product immediately if trials found them safer than my current product"
- U S., <18 Biologic User

"I'd wait between 6 months and 1 year Closer to one year would be enough exposure to the community to have good results"
- U.S., <18 Recombinate User

"I would have to weigh the benefits of safety with manufacturer availability and cost"
- U.S., ≥18 Recombinate User

"My physician would have to decide this He's the expert and I'd follow his lead"
- U S <18 Kogenate User

"I would want to be very cautious I'm very comfortable with what I am on now"
- U S, ≥18 Recombinate User

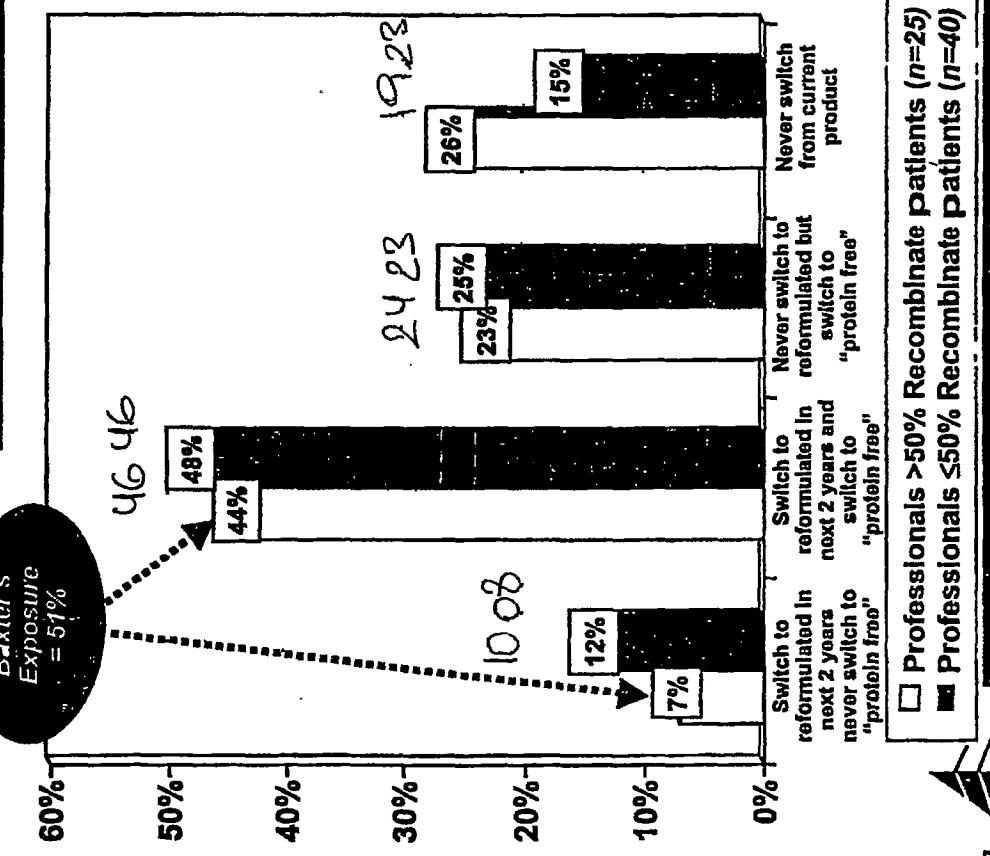
"I really wouldn't switch my son I see no difference in Kogenate SF and what we use now As long as they have human protein in the manufacturing process we're not interested"
- U S, <18 Kogenate User



48
GH001153

Baxter's potential share loss is lower among "Baxter Friend" professionals. However, half of its U.S. market is still at risk even within that group.

Switching Scenarios -by % of Professionals' Patients on Recombinate -



Baxter's
Exposure
= 51%

U.S. Findings

Comments/Quotes

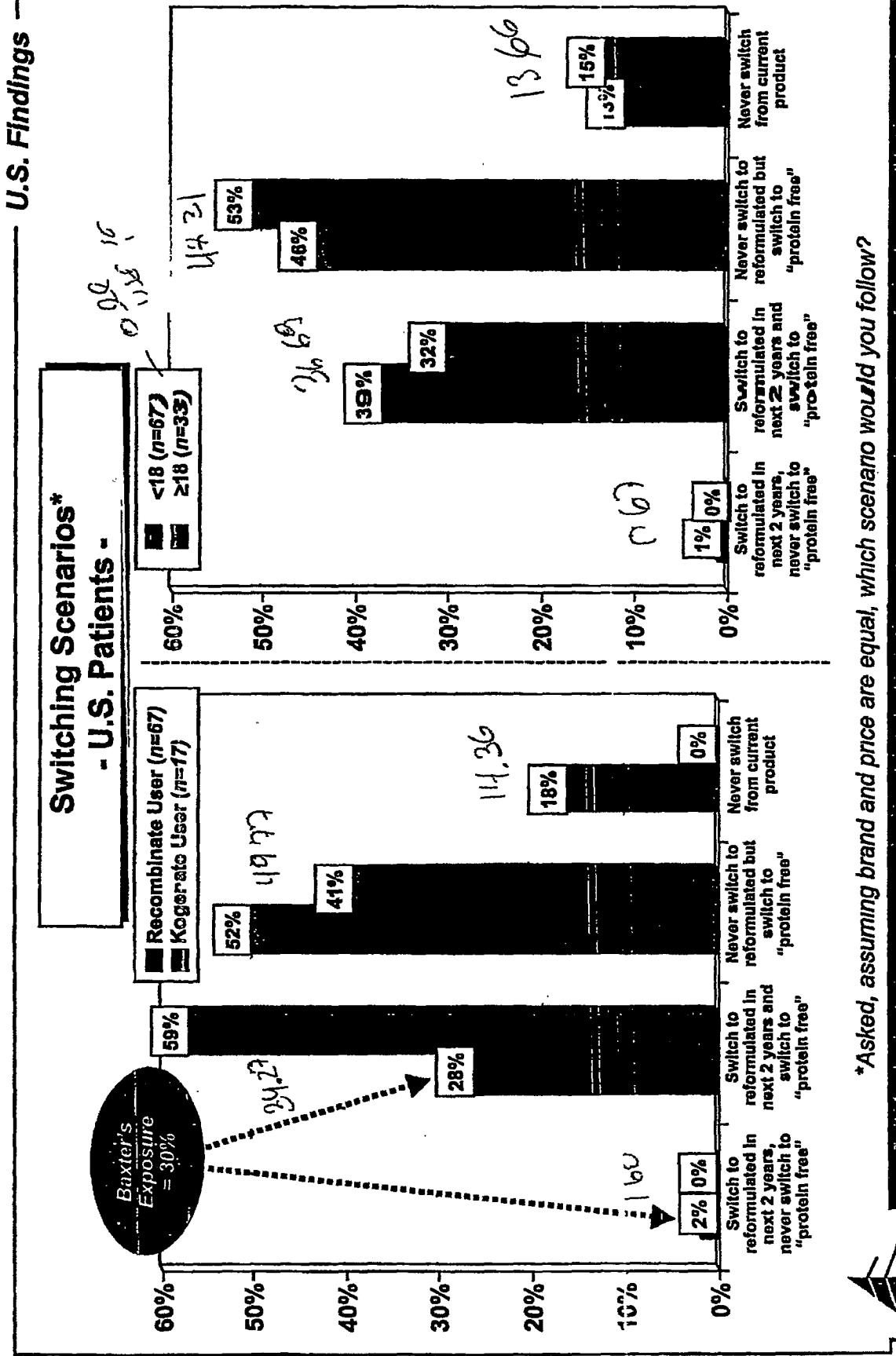
"Some patients will switch twice, as they always want the safest one available"
- U S Physician

"Some people may wait for the protein free. That is the ultimate goal, to remove the proteins"
- U S Physician

"It is hard for families to switch a product when the current one is working well Especially if they know a protein free one is coming out"
- U S Nurse

"Since the products are already very safe, Inhibitor incidence will be the key factor in determining whether patients will switch to the new products"
- U S Physician

From a Recombinate patients' prospective, Baxter is at risk to lose 30% of its current U.S. market share to a reformulated product.



Many Recombinate users expressed satisfaction with their current product and willingness to wait for the "protein-free" product before switching.

U.S. Findings

Switching Scenarios

- U.S. Patients -

Comments/Quotes

"I'm afraid to change a lot due to risk of inhibitors. I'd rather just skip to the protein-free product because that eliminates exposure to human proteins."

- U.S., <18 Recombinate User

"Because the reformulated is still exposed to animal and human proteins / would wait for the protein-free."

- U.S., ≥18 Recombinate User

"If it is only 2 years behind, I'd wait for the protein-free / would not switch before because I am comfortable with what I am on now"

- U.S., <18 Recombinate User

"I'm not afraid of technology and will go with each improvement, as recommended by my physician"

- U.S., <18 Kogenate User

"I am willing to try any new product that will increase the effectiveness of my treatment and will use the best available until the protein-free is out"

- U.S., ≥18 Kogenate User

MARTL

U.S. professionals are more likely to recommend a second or third generation product to younger patients.

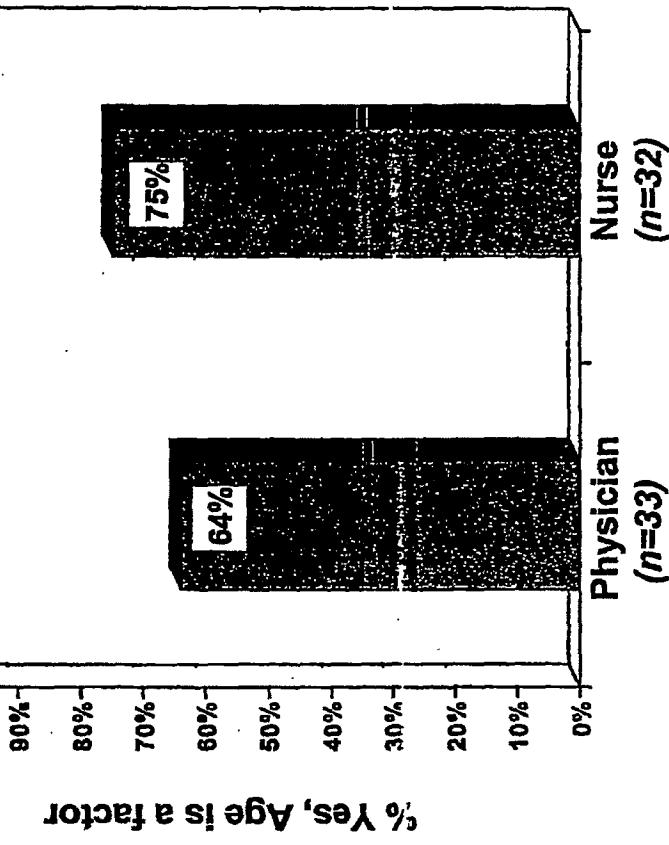
U.S. Findings

Is Patient's Age a Factor in Deciding to Switch Products?

U.S. Professionals

Comments

Comments/Quotes



"If I have an adolescent that is doing well on a product I am reluctant to switch. However, will switch sooner if not immediately." - U S Physician

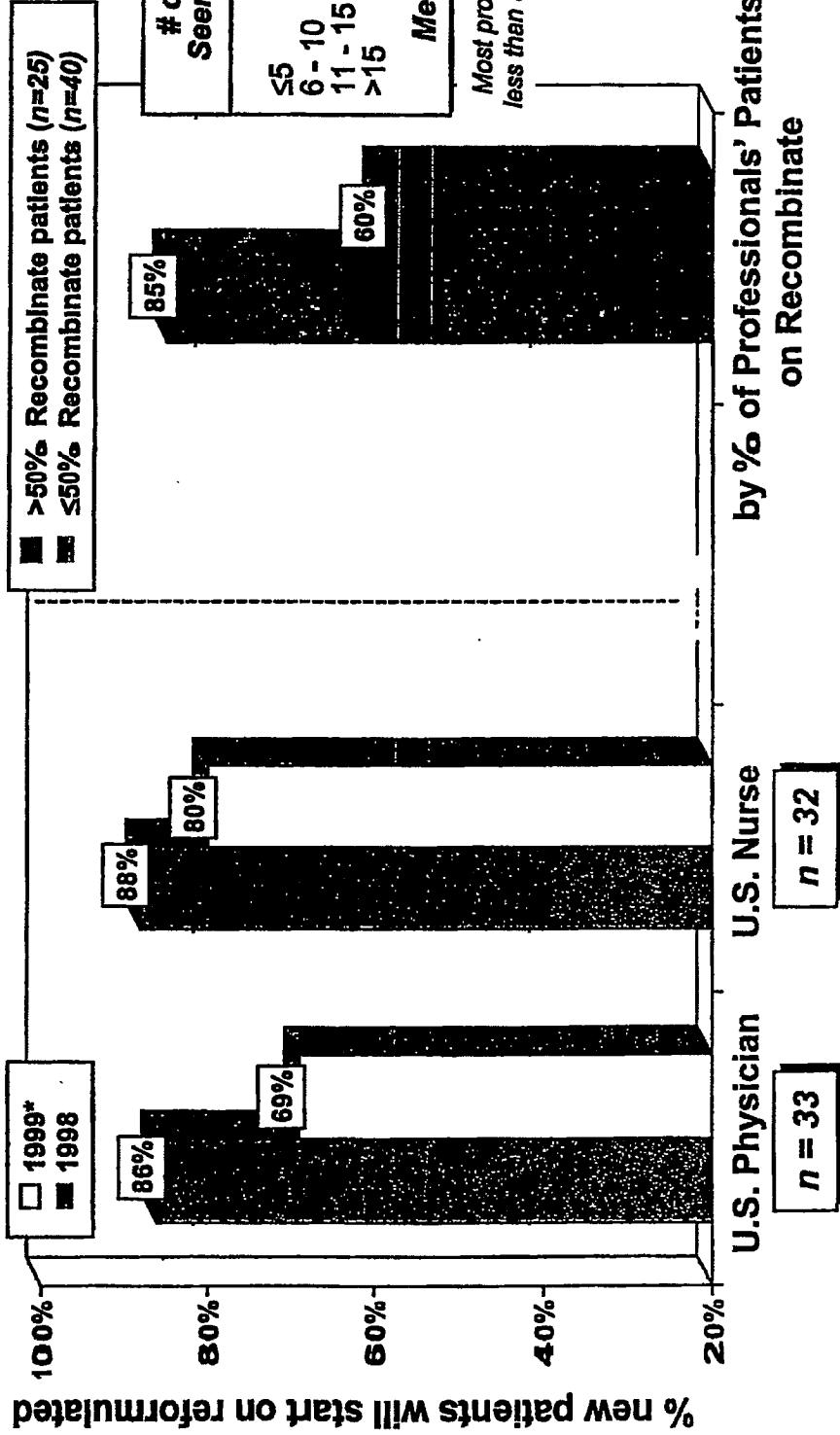
"Age and previous viral exposure both play a role. They younger patients have had less viral exposure so we want them on the newer product if possible - U S Nurse

"Most patients are free of infectious diseases at this point, but I would want to make sure all my patients receive the safest product possible regardless of age" - U S Physician

U - professionals are less likely to start PUPs on reformulated products in 1999 than they were in 1998. "Baxter Friendly" professionals are also less likely than others to start PUPs on reformulated products.

U.S. Findings

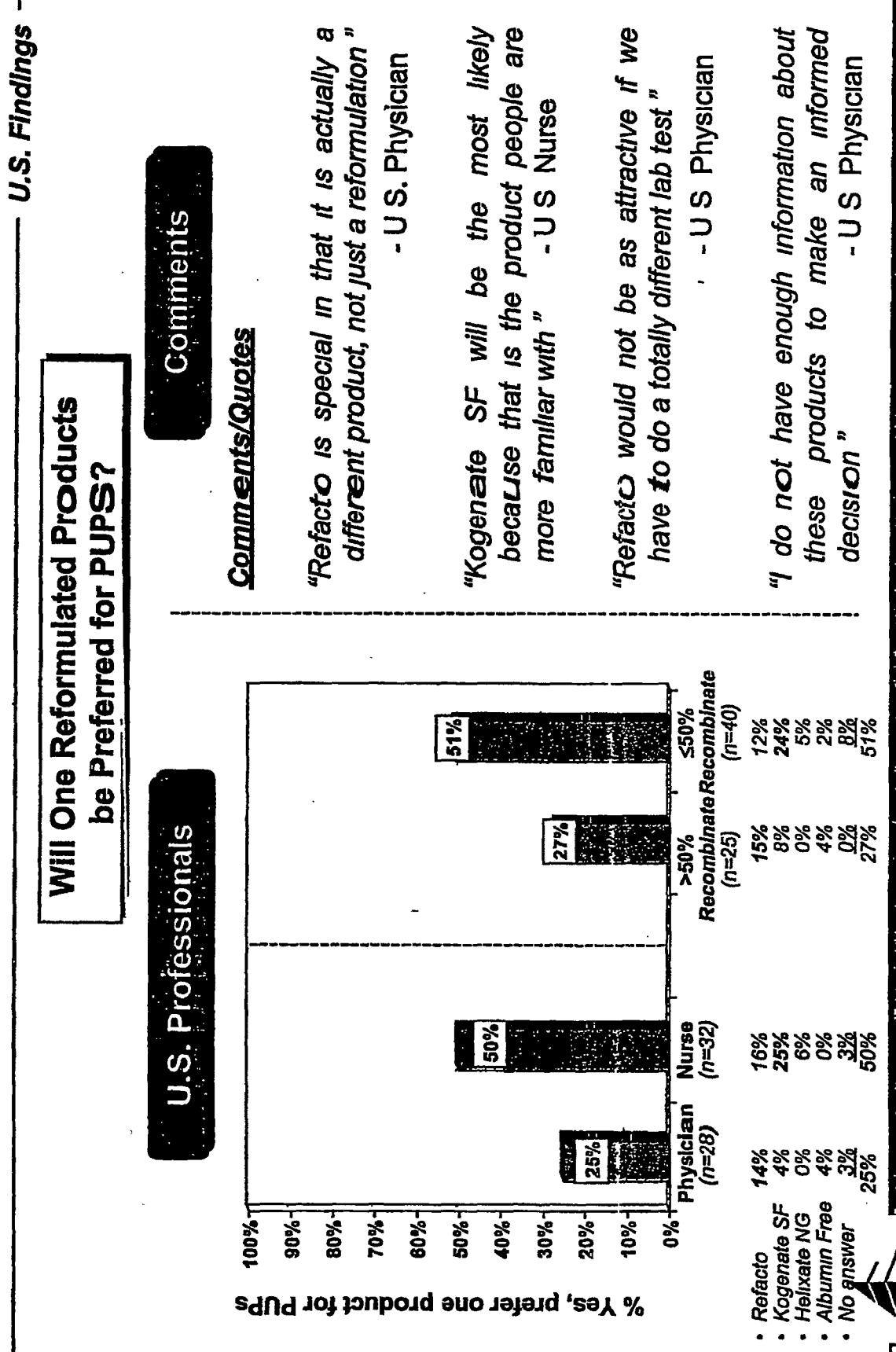
% Newly Diagnosed on Reformulated



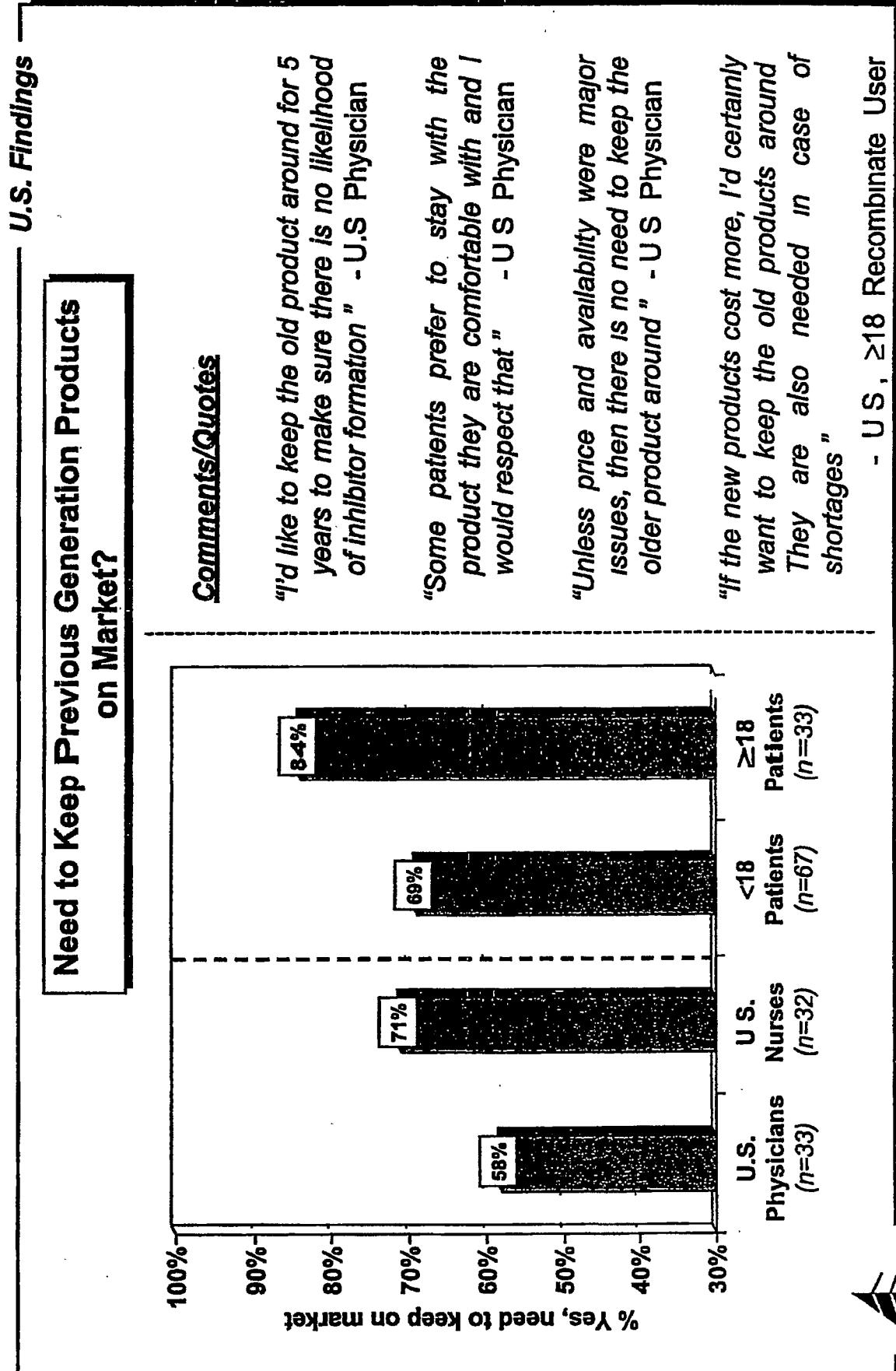
*Differences may be the result of the "Protein Free" product scenario being presented in 1999 and not in 1998

MARITI

When there is a preference for one reformulated product over another for PUPs, physicians and "Baxter Friendly" professionals prefer Refacto.



More adult patients express the need to keep previous generation products on the market after next generation products are introduced.



When specified, the lack of continuous infusion was mentioned more than lack of room temperature storage as a concern by U.S. professionals.

Convenience Features with New Products

U.S. Professionals

Will lack of these features influence your opinion of the new products?

No

21%

79%

Yes

% concerned over lack of...

- Continuous infusion 20%
- Room temperature storage 10%
- Both issues/ one not specified 49%

n = 65

Comments/Quotes

"I would not like that at all. Continuous infusion is used quite often at the hospital. Patients also travel a lot now and need room temperature storage" - U S Physician

"No room temperature storage would be a big problem. Over 80% of my patients are home healthcare and I can't guarantee they will store the product properly" - U S Physician

"The lack of these features would deter patients from switching big time" - U S Nurse

"If the new product were excellent, you may put up with these inconveniences" - U S Nurse

U.S. Findings

Patients are more willing than physicians to put up with these inconveniences, if they get a safer product.

U.S. Findings

**Convenience Features with
New Products**

U.S. Patients

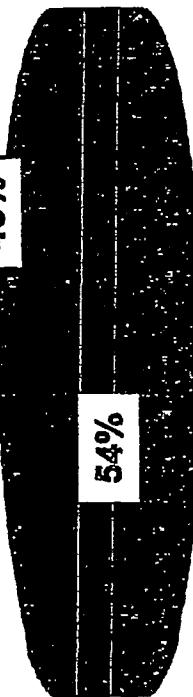
Will lack of these features influence your opinion of the new products?

No

46%

Yes

54%



↓

| % concerned over lack of... | |
|-------------------------------------|-----|
| - Continuous infusion | 12% |
| - Room temperature storage | 19% |
| - Both issues/ one not specified | 23% |

n = 100

"Safety outweighs convenience, so this is not that big of an issue."

- U S , <18 Recombine User

"I'd still use the safer product, but we'd need to keep the previous products around for traveling and emergencies"

- U S , <18 Kogenate User

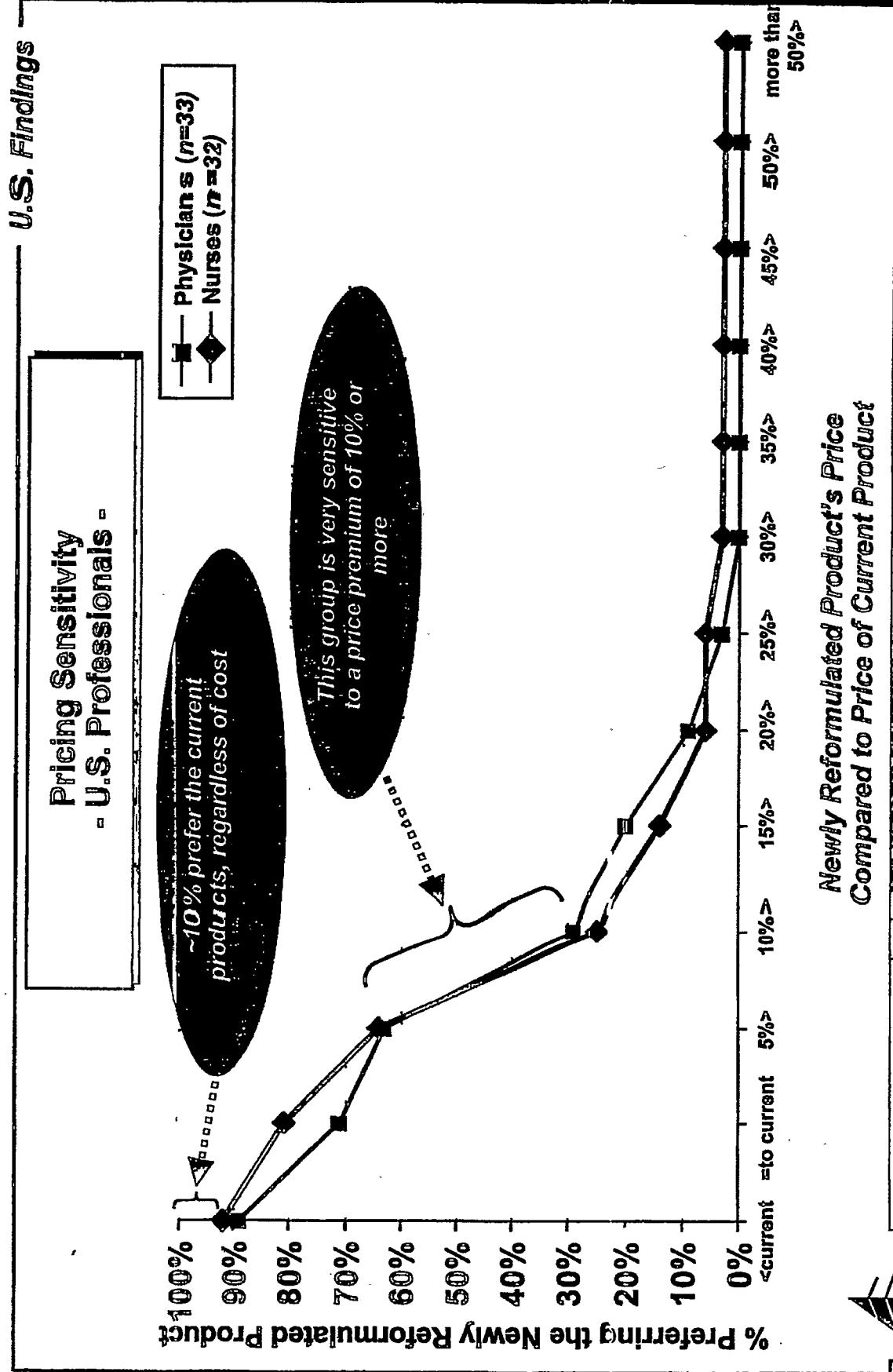
"I'd be less likely to use them I like to throw it in the backpack and go hiking"

- U S , ≥18 Recombine User

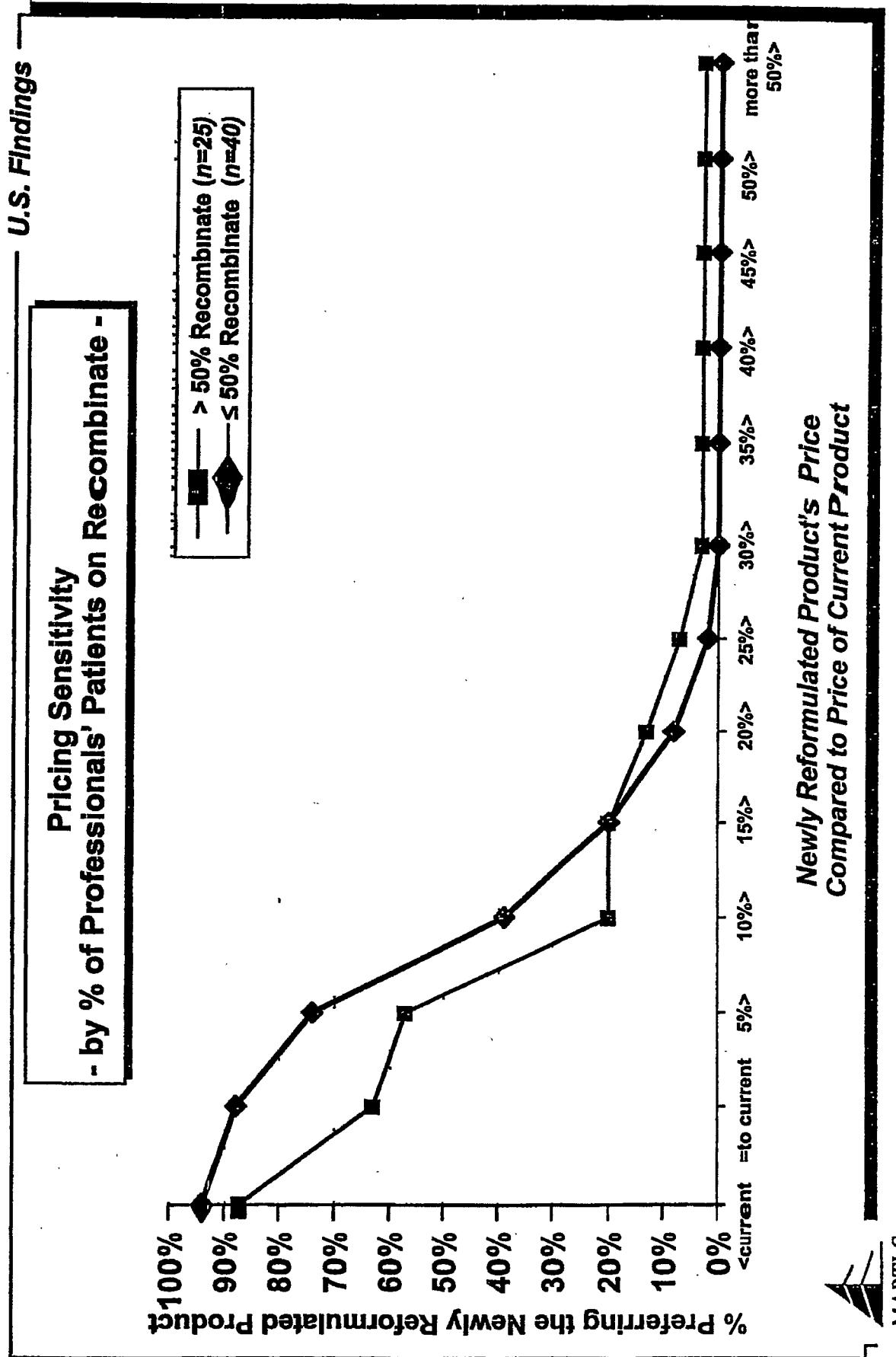
"We can deal with the refrigeration, but continuous infusion is necessary if my child needs surgery"

- U S , <18 Recombine user

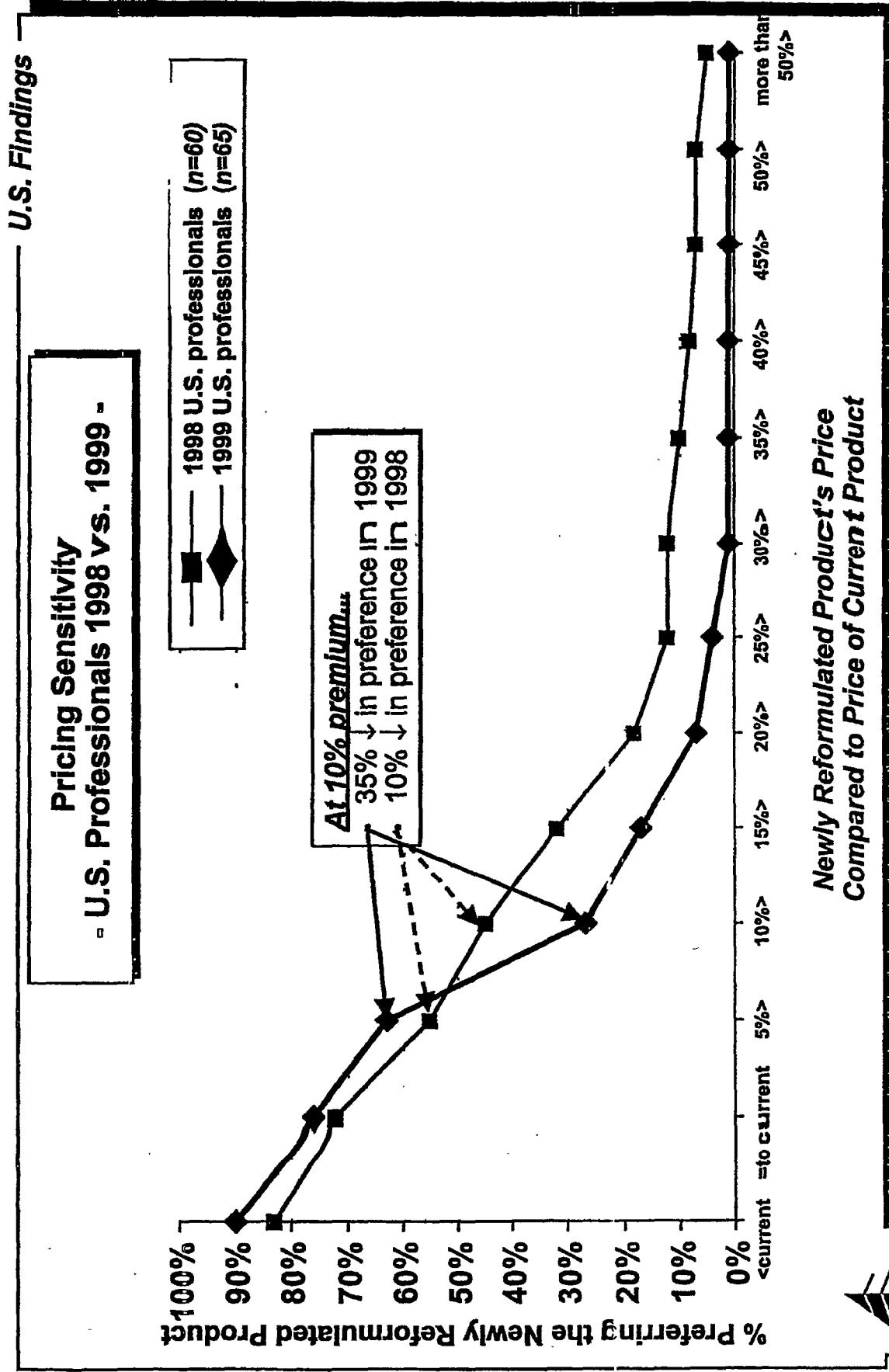
The added safety promised by the newly reformulated products is worth a 5% premium to most U.S. professionals, but not 10%.



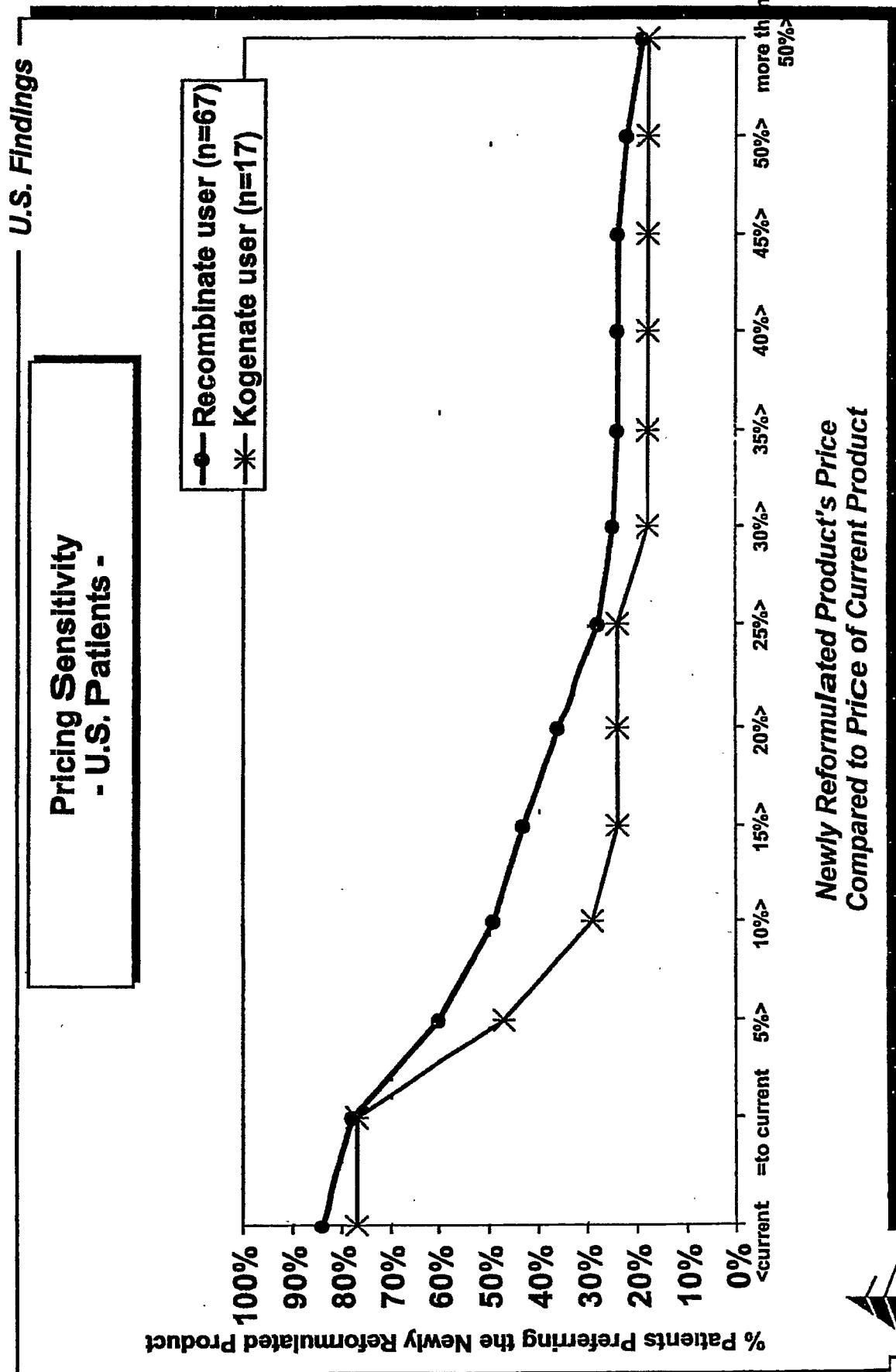
"Baxter Friendly" professionals appear to place less value on the newly reformulated products.



U.S. professionals have become more price sensitive this year to a 10% premium for the reformulated products.



Kogenate users are more price sensitive than Recombinate users.
(i.e. fewer prefer the reformulated product at higher prices).

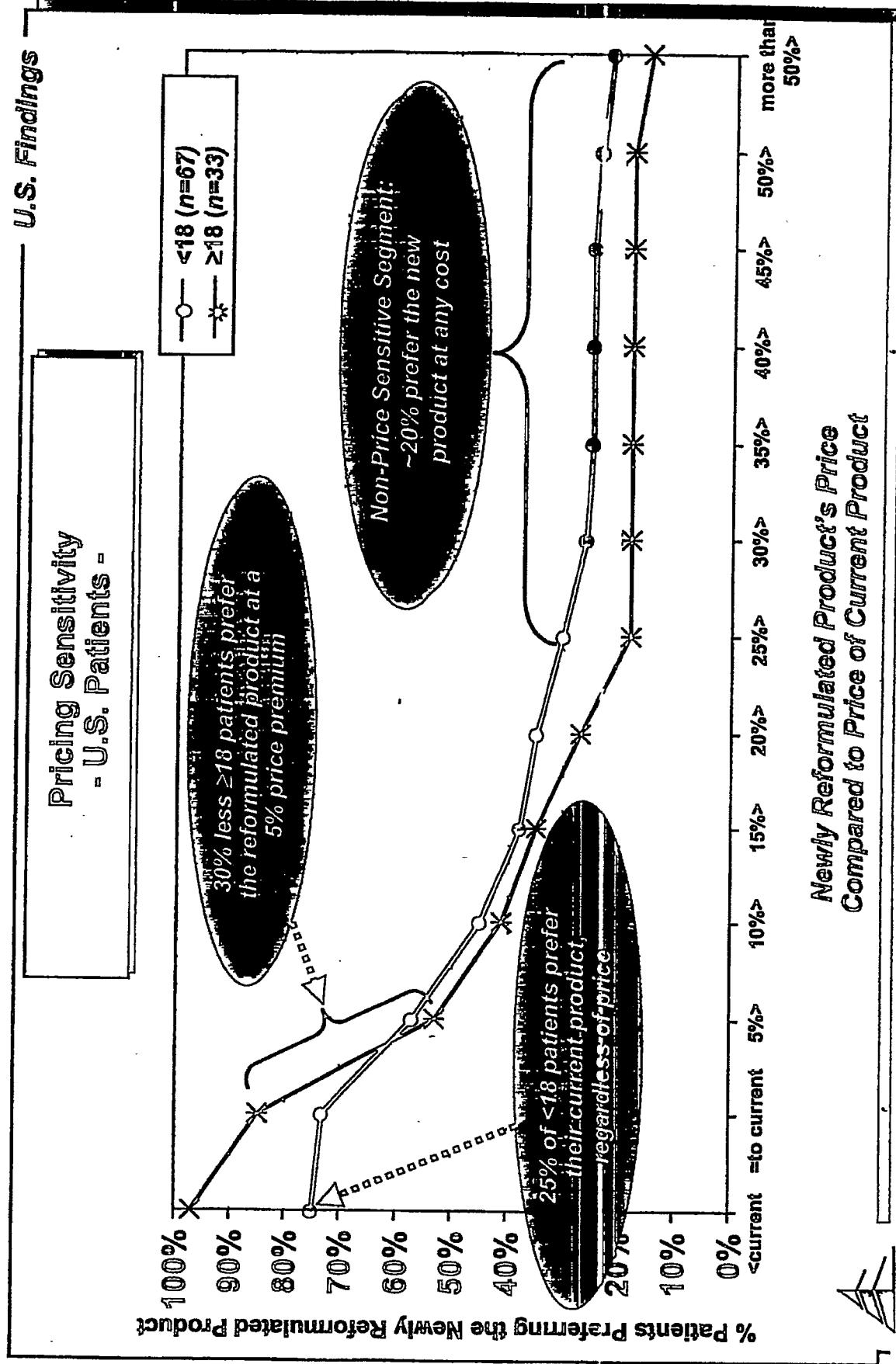


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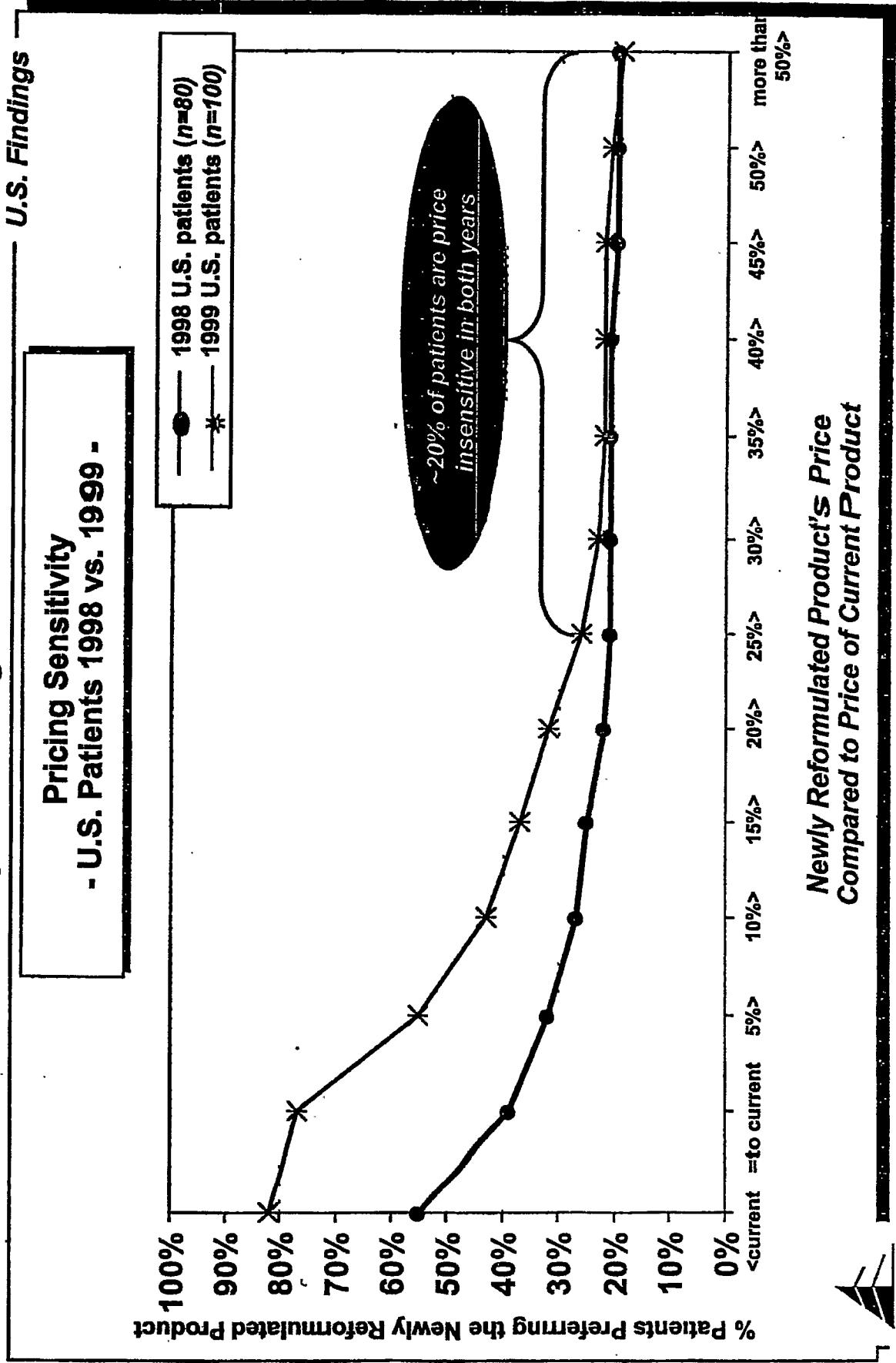
MARTIN

SH0011 66

Older patients' preference is more affected by price than younger patients.



In 1999, more patients indicate they prefer the newly reformulated product at a lower or equal cost. In both years, 20% of the patients prefer the reformulated product regardless of its cost.



Many respondents felt the benefit of the reformulated products did not justify much of a price premium.

U.S. Findings

Pricing Sensitivity Comments

Professional Comments

"For younger patients I would pay more for a product. The older patients have to worry more about their lifetime insurance caps" - U S Physician

"The need for switching to this product is based on a theoretical concern, rather than a real one. I have a hard time saying that patients should pay 10% more for this improvement" - U S Physician

"Since there is no real difference in the products, families will make this decision based purely on price If price is equal, they'll likely stay with their current product." - U S. Physician

Patient Comments

"I want to use what is best for my son regardless of cost"

"It is so expensive now and the current products are pretty safe So if cost were much of a difference we would stay with the current product I'm also not sure how much more our insurance will pay" - U S , <18 Kogenate User

"Based on the safety record of albumin, I don't think the new products offer much of a benefit, so it's not worth it to pay more" - U S , ≥18 Helixate User



Agenda

Objectives and
Methodology

U.S. Findings

U.S. Conclusions

Canadian Findings

Canadian Conclusions

North American
Recommendations

This summary of findings is based upon the 176 Phase I and II U.S. interviews.

Current Product Environment Findings

- U.S. Conclusions
- 1 Baxter's Recombinate is the most used recombinant FVIII replacement as reported by physicians in this sample, holding a 48% share of recombinant use
 - 2 U.S. professionals report that prophylaxis treatment is practiced by 30% of their patients Patients under the age of 18 report they are three times as likely as patients over 18 (62% versus 18%) to follow a prophylaxis treatment program
 - 3 100% of adult and 87% of <18 patients in this study have switched products at least one time
 - 4 The promise of a safer product via less exposure to viruses and human protein were the key reasons for previous switching Physicians provided the greatest influence in a patient's switching decision Own research was also an important influence
 - 5 Good viral safety record and less exposure to human proteins were listed as the most liked features of recombinant products
 - 6 Professionals mentioned high price most often as a dislike of recombinant products Patients listed still contains human albumin
 - 7 Viral safety in general is clearly the most important element of safety



66
GH001171

Key U.S. Findings (continued)

Current Product Environment Findings (cont'd)

- U.S. Conclusions*
- 8. Baxter rated the highest in terms of reputation, even among Kogenate users.
 - 9. Professionals view all recombinant products equally in terms of performance, except for Availability, where Recombinate is rated significantly higher.
 - 10 Patients rated Recombinate over Kogenate in 3 of 10 Key Switching Criteria' availability, latest technology and supplier reputation
 - 11 Patients' overall satisfaction with Kogenate has decreased, now Recombinate rates significantly ahead of Kogenate
 - 12. Respondents mentioned the availability of patient educational material as a key selection criteria not originally listed
 - 13 Smaller vial sizes (5 ml) and a greater range (150, 750, >1500 IU) and availability of potency strengths is desired by patients

 MRCI

Key U.S. Findings (continued)

New Product Awareness & Knowledge

- 1 Refacto is the new product with the highest share of awareness in the U.S.
- 2 Physicians' awareness of both Refecto and Kogenate SF has increased. Awareness among patients did not change and remains low.
- 3 Forty-nine percent of patients and 96% of professionals claim to know that human albumin will be removed as a stabilizer for the second generation recombinant products.
- 4 Two-thirds of patients and 93% of professionals claimed to know that human/animal protein will be used in manufacturing process of the new products, 88% and 63%, respectively, were concerned over this.
- 5 Patients (33%) and physicians (78%) had knowledge of the use of a modified gene, ~40% were concerned.
- 6 Patients (24%) and physicians (28%) had the least knowledge about new products not allowing continuous infusion and room temperature storage, 66% and 55%, respectively were concerned.
- 7 56% of professionals knew of the use of a different assay and 83% were concerned.
- 8 Due to the removal of human albumin as a stabilizer, second generation recombinant products are expected to be safer than the current recombinant products. In fact, many respondents believe these products will be "albumin free".



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GH001173

Key U.S. Findings (continued)

U.S. Conclusions

Reformulated Switching Findings

1. Many physicians and patients could not determine their likelihood to switch without clinical trials proving lower exposure to viral contamination and no greater incidence of inhibitors
2. Professionals show no real preference for Refacto or Kogenate SF.
3. Kogenate users strongly prefer Kogenate SF over Refacto and Heliplate NexGen.
4. Approximately 40% of Recombinate users and 60% of Kogenate users would feel comfortable switching within one year of a reformulated product's introduction, both down from 1998
5. Professionals estimate over 50% of their patients will switch to a reformulated product before a "protein free" one is available. They expect 29% of their patients to wait for a "protein free" before switching and 19% never to switch from what they are using now
6. Only 30% of Recombinate patients, versus 60% of Kogenate patients, estimate they will switch to a reformulated product before a "protein free" one is available. 52% of Recombinate patients estimate they will wait for a "protein free" before switching compared to 41% of Kogenate patients. The remaining 18% of Recombinate users claim they will never switch from their current product
7. Age is a factor in a professionals' decision to switch products, they are more likely to use newer products on younger patients first.

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Key U.S. Findings (continued)

Reformulated Switching Findings (cont.)

- 8 Only 70% of physicians claim they will start their newly diagnosed patients (PUPs) on reformulated products once they are introduced, down from 86% in 1998. Physicians express a slight preference for Refacto for their PUPs, while nurses express a slight preference for Kogenate SF.
- 9 Many adult patients (84%) express the need to keep previous generation products on the market. Fewer physicians (58%) express this need.
- 10 Professionals, at 79%, are more likely than patients (54%) to be influenced by the inability for continuous infusion and room temperature storage. Specifically, continuous infusion is more of a concern among professionals and room temperature storage is the main concern among patients.
- 11 Martec believes in the U.S., Kogenate SF will provide the greatest threat to Recombinate. This is due to Kogenate SF's "first to market" advantage and the potential assay problems with Refacto.

Pricing Findings

- 1 The current pricing of recombinant products is viewed as being very high.
- 2 20% of patients are not price sensitive, they prefer the reformulated product, regardless of price.
- 3 Physicians are price sensitive to a 10% premium. Preference for the reformulated products drops significantly from 62% at a 5% premium to 27% at a 10% premium.



70
GH001175

While the concern of *viral safety* appeared to increase among U.S. respondents from 1998 to 1999, the expected speed and likelihood of switching to a reformulated product has decreased.

Conclusions

U.S. Findings -1998 to 1999 Comparison -

- Patient use of Recombinate has increased in 1999, while Kogenate use has decreased among our sample
- The concern for viral safety is more apparent, unprompted elements are mentioned more often and importance ratings have increased
- Patients rate their current products higher in 1999 in terms of meeting their safety needs
- Baxter reputation ratings are higher, while other manufacturers results are mixed
- Recombinate gained a significant advantage over competition in *product availability* in 1999
- Professionals' unaided awareness of Refacto has grown significantly, while Kogenate SF unaided awareness grew only slightly, aided awareness of both products also grew

- Patient awareness of both products did not change and remains low
- A significantly higher percent of professionals identify "albumin free" with Refacto and Kogenate in 1999
- Professional awareness has risen significantly regarding reformulated products
 - not using albumin to stabilize
 - still exposed to proteins in manufacturing
 - being based on modified Factor VIII gene
- U.S. professionals expect fewer patients to switch to a reformulated product now (59%) than they did last year (78%)
- Professionals have become more price sensitive, with their threshold dropping from 10% to 5%
- 20-25% of patients remain price insensitive

Agenda

Objectives and
Methodology

U S. Findings

U S. Conclusions

Canadian Findings

Canadian Conclusions

North American
Recommendations



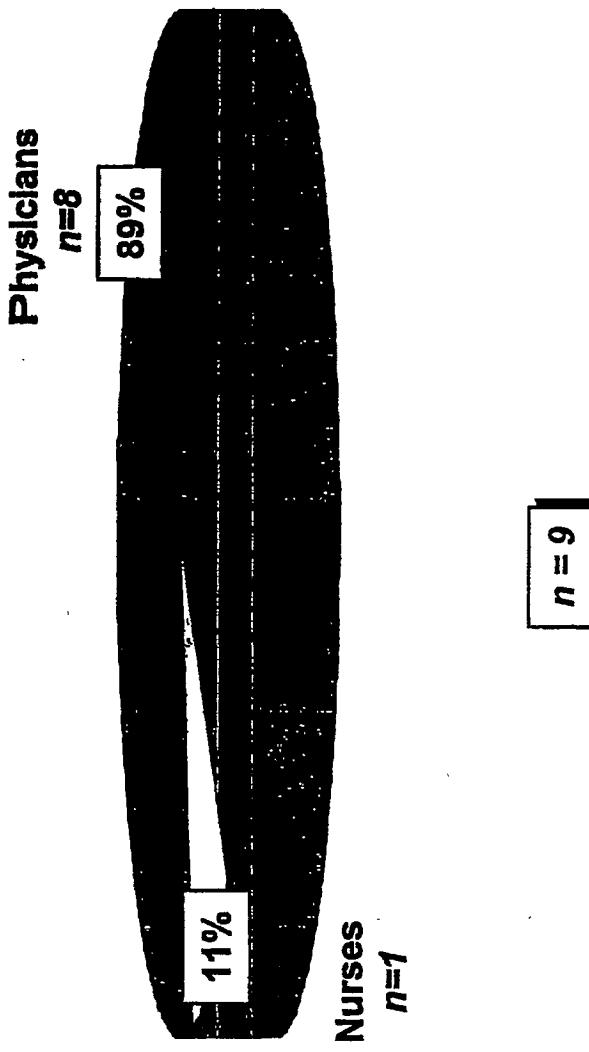
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The Canadian sample fell slightly short of the ten physicians originally targeted. No patients were interviewed in Canada.

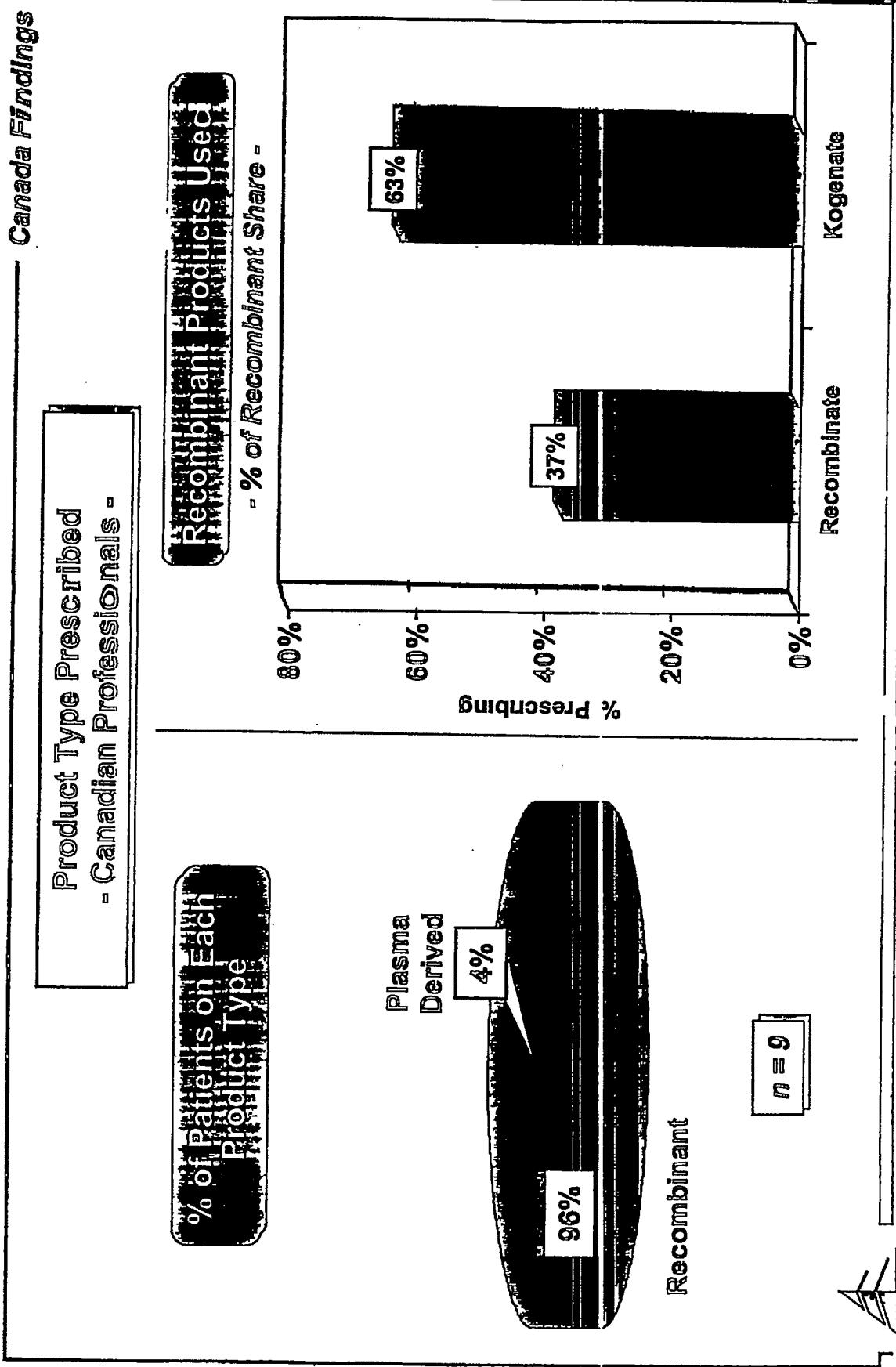
Canada Findings

Canadian Professionals
- Phase II -

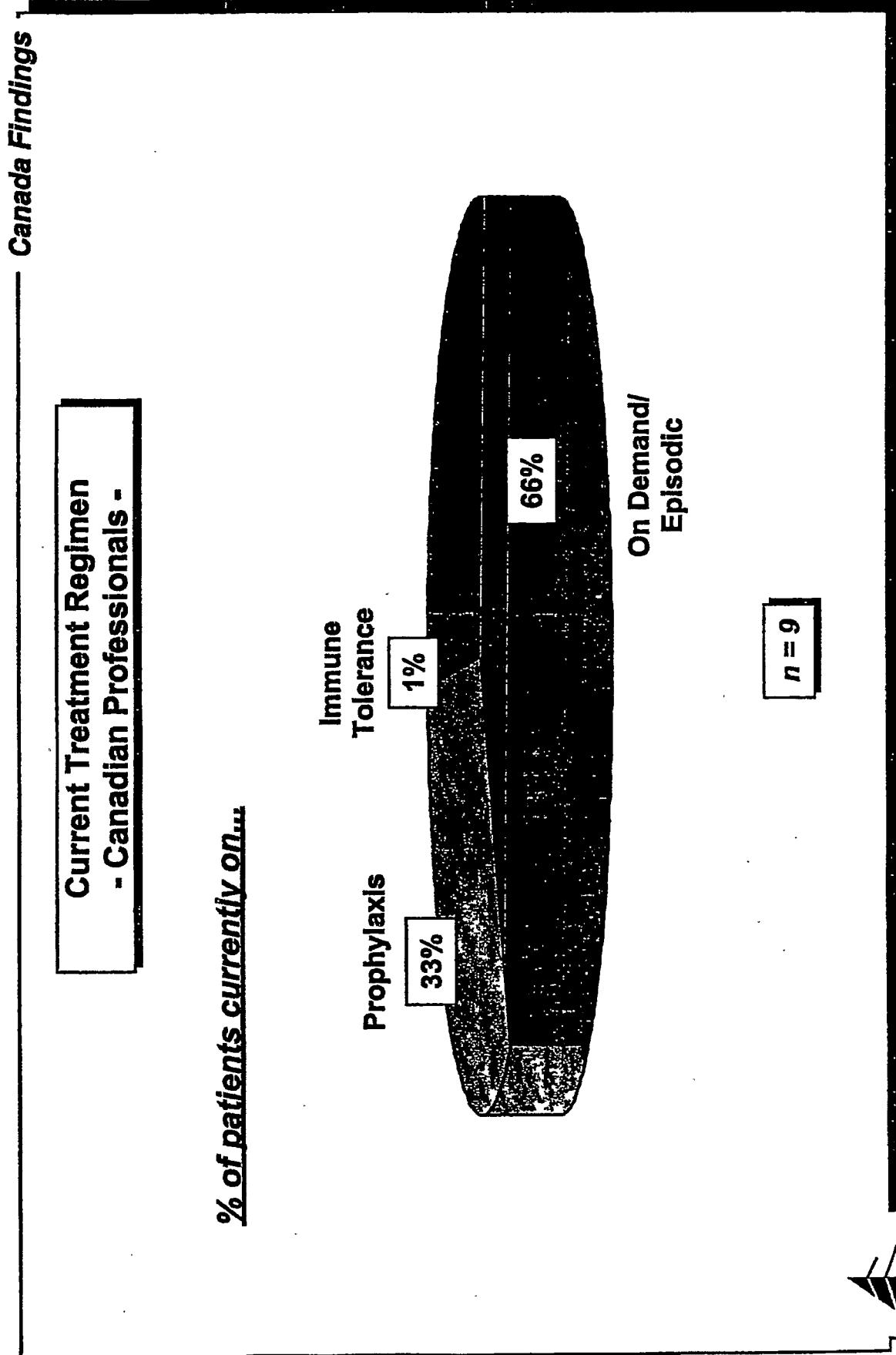


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Kogenate is the product used by most Canadian physicians' patients. No Centeon usage was reported by this sample.



Episodic treatment is twice as common as prophylaxis in Canada.



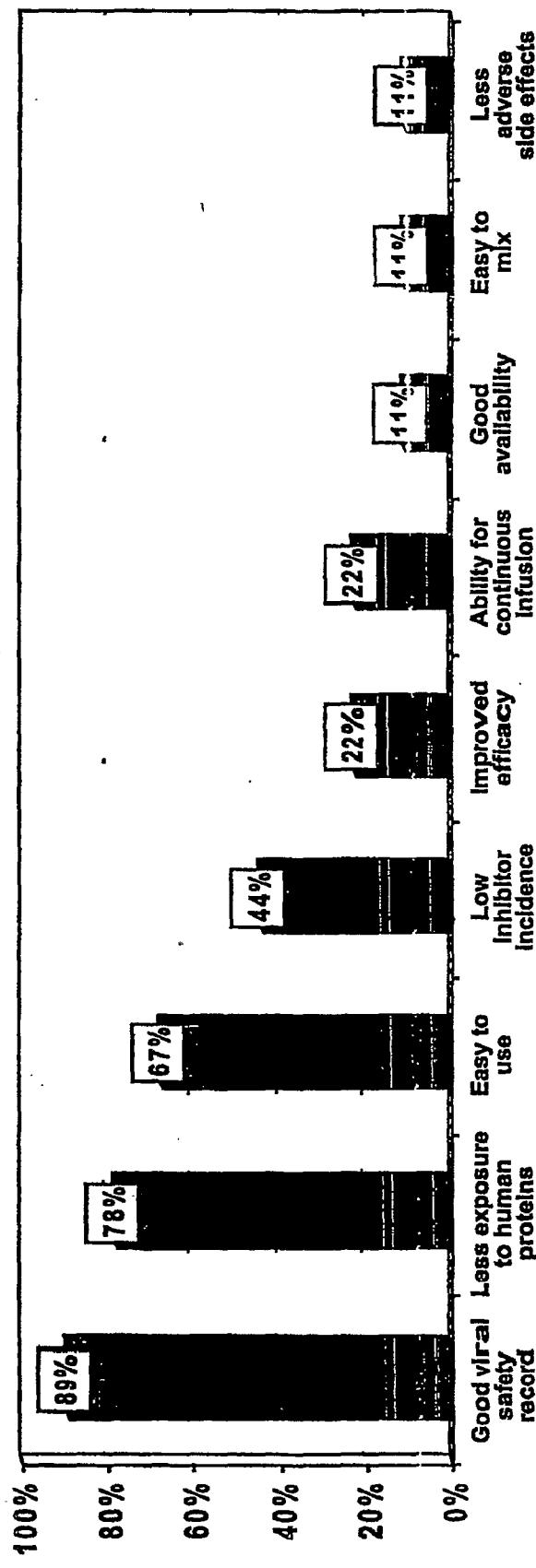
75

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MARII C

Good viral safety record, less exposure to human proteins and easy to use are what Canadian professionals like the most about their recombinant products.

Canada Findings



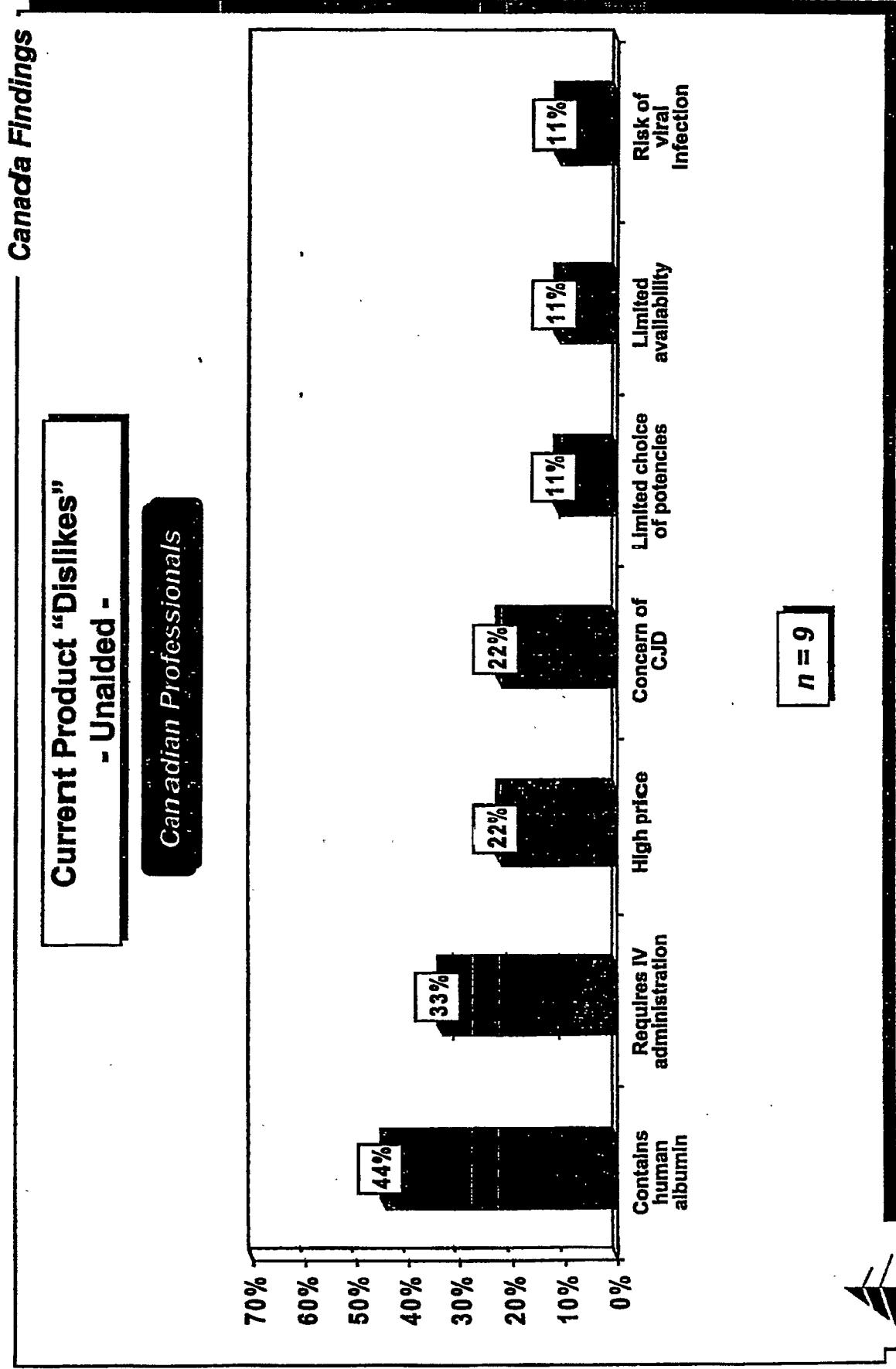
n = 9



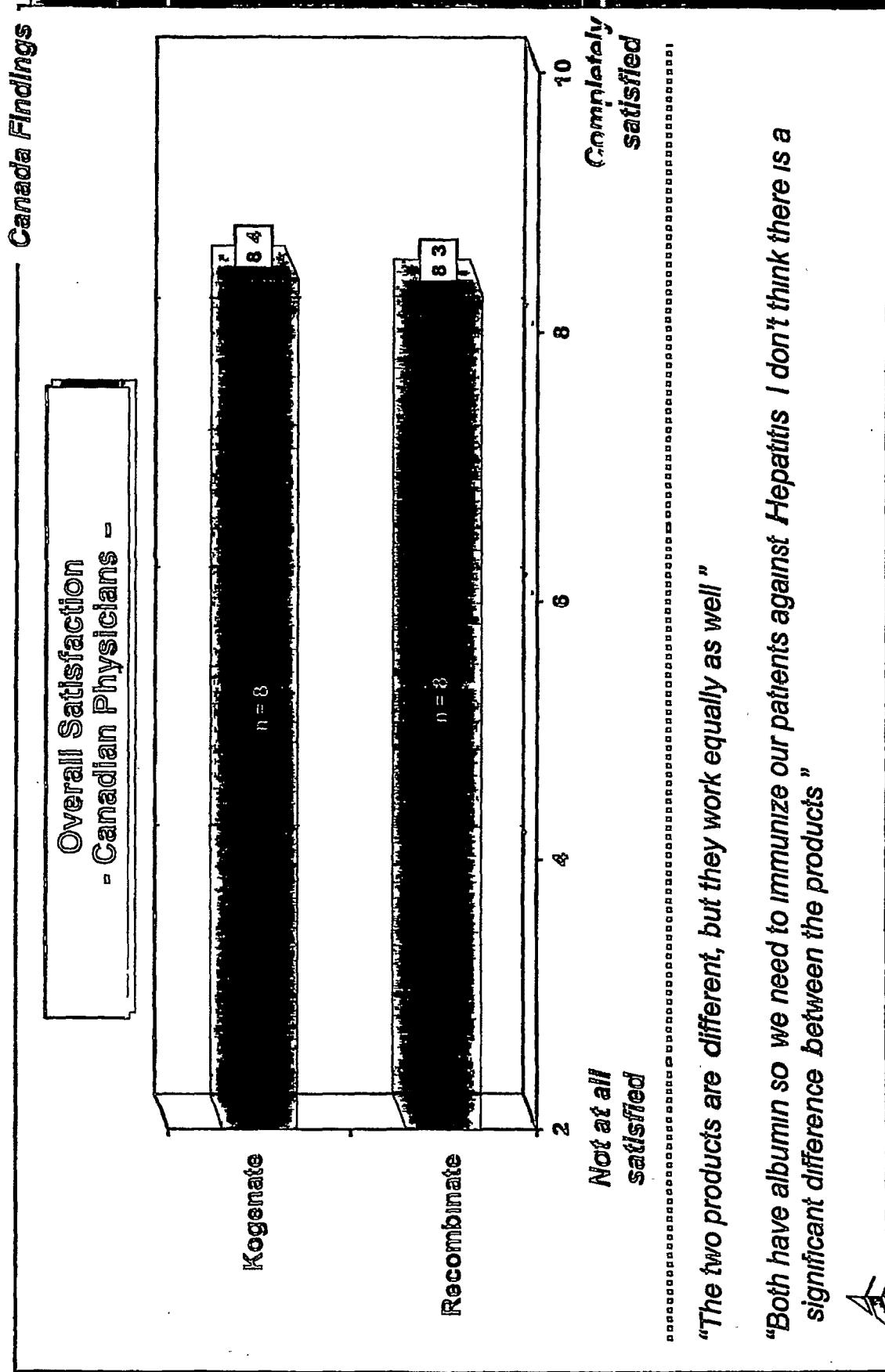
MARTEC

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GH001181

The top Canadian dislike is that the product contains human albumin.

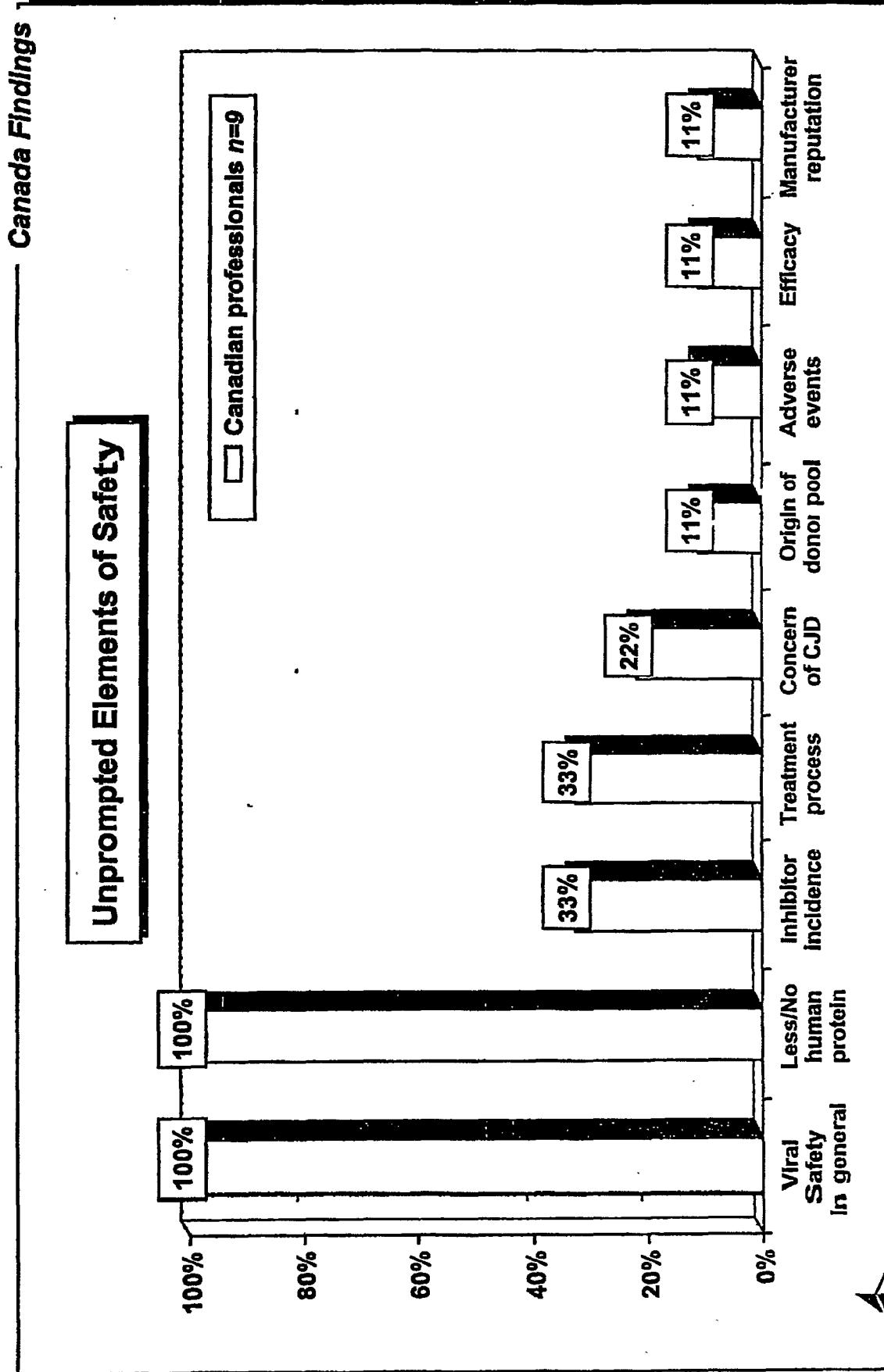


Canadian physicians are equally satisfied with Recombinate and Kogenate.



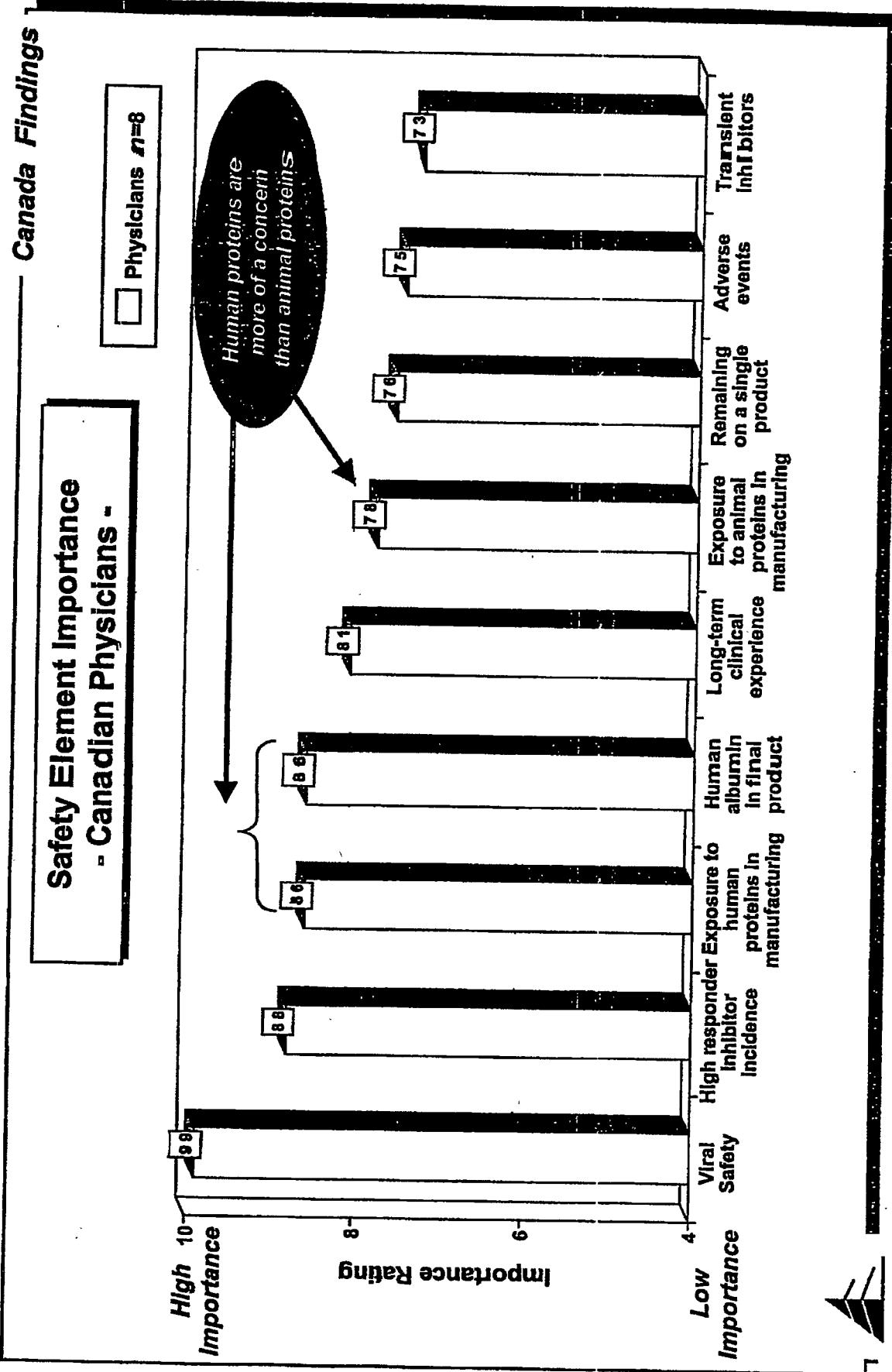
78
GH001183

When thinking of safety, Canadian professionals think of both viral safety in general, and contains less/no human protein specifically.



MARIC

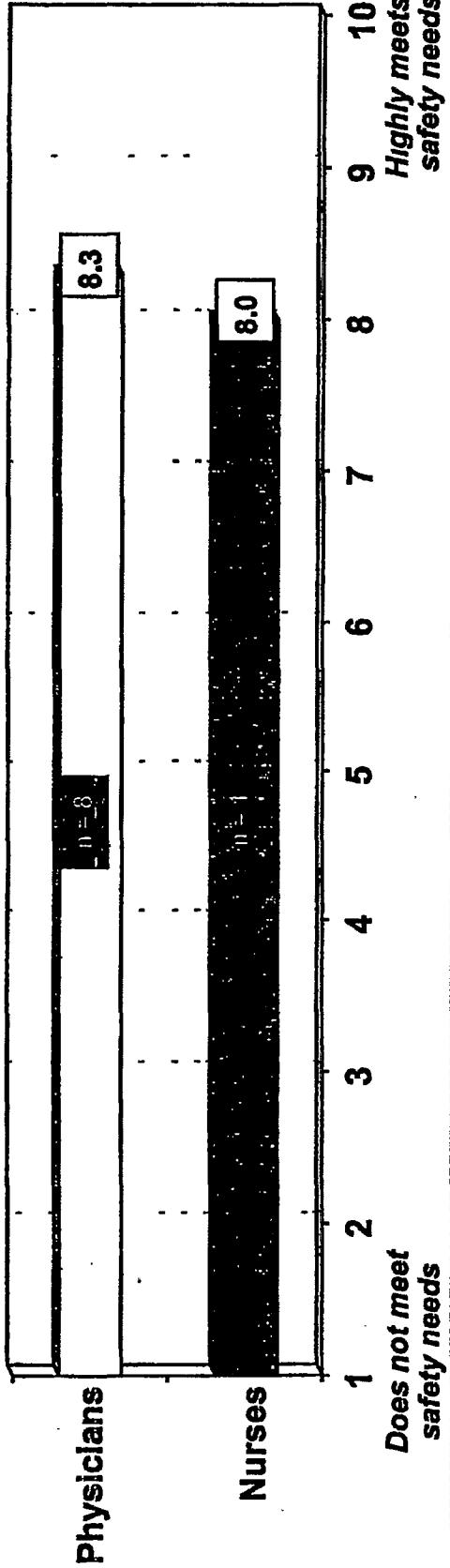
Beyond viral safety, all other safety elements pale in importance.



Recombinant products are not viewed as totally safe.

Canada Findings

Safety Needs of Recombinant Products - Canadian Professionals -



Comments

“The products still contain albumin and use human plasma in production, so there is still a risk”

"In Canada, there's a bit of a lack of confidence in Kogenate because of the CJD contamination"

"The products still use albumin as a stabilizer and human protein is still in the culture media "

Canadian Nurse

Baxter receives the highest reputation ratings from Canadian professionals. This is because Baxter is not remembered as having any recent problems.

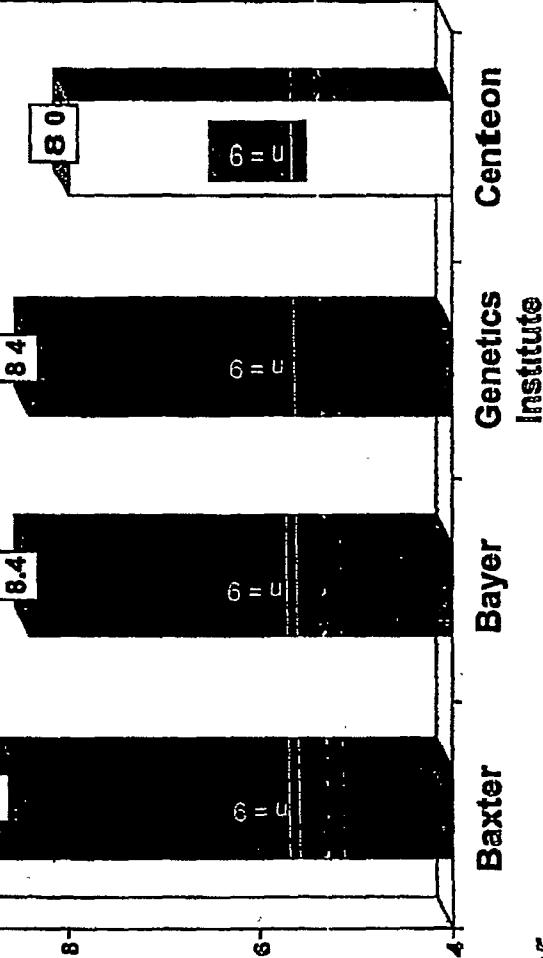
Canada Findings

Good Reputation

Company Reputation
- Prompted -

Comments

"Centeon has had more problems with availability than the others"

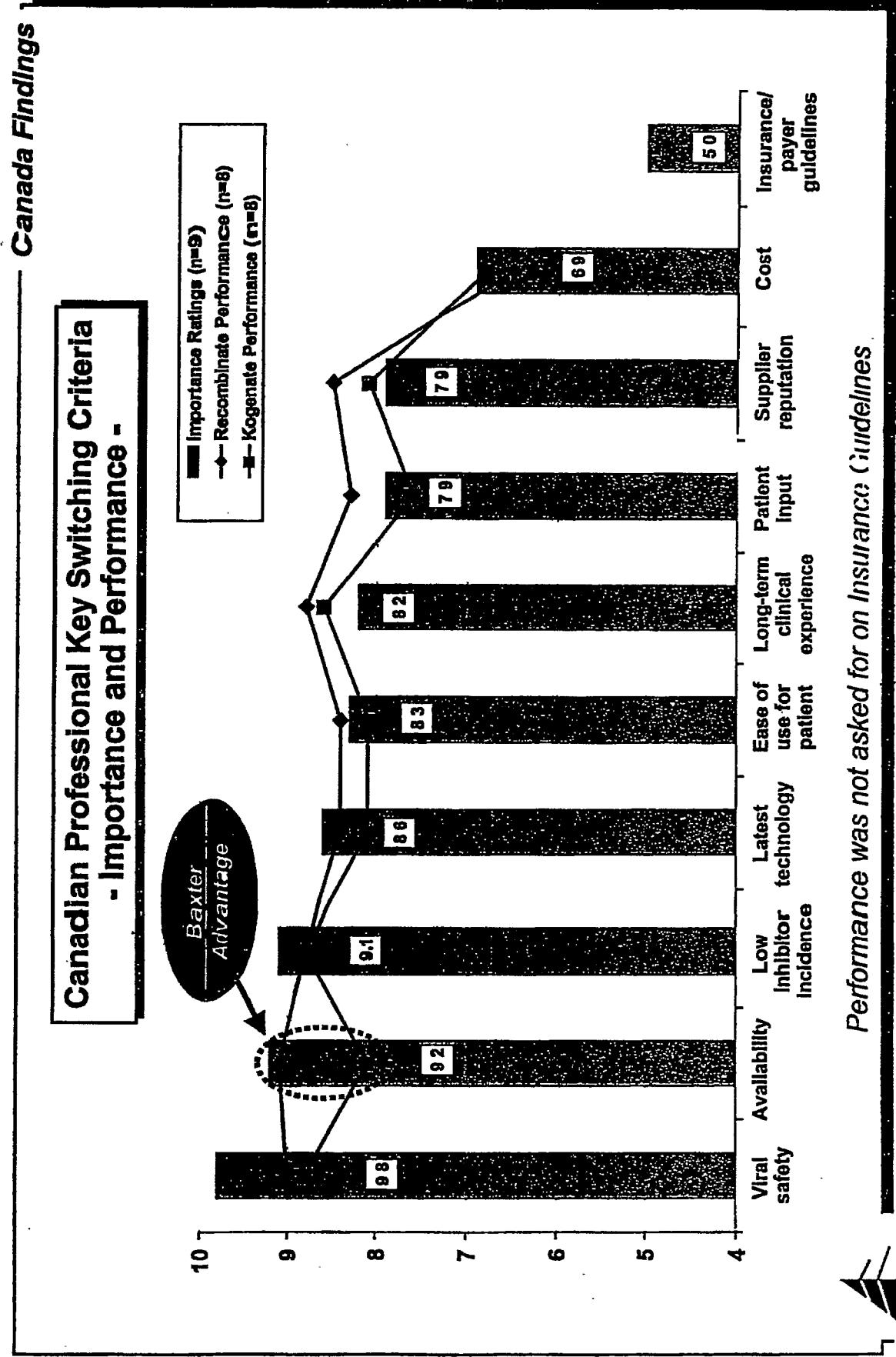


- Canadian Nurse

"GI is not primarily a blood products supplier and lacks the knowledge and experience of Baxter and Bayer in the hemophilia market"

"Bayer has had problems with CJD Centeon used to be Armour and they had a big viral problem in 1987"

Canadian physicians give Recombinate slightly higher performance ratings in every category except Cost.



One Canadian respondent expressed concern of CJD and prions as a selection criteria.

Canada Findings

Other Selection Criteria
- Not from List Provided -

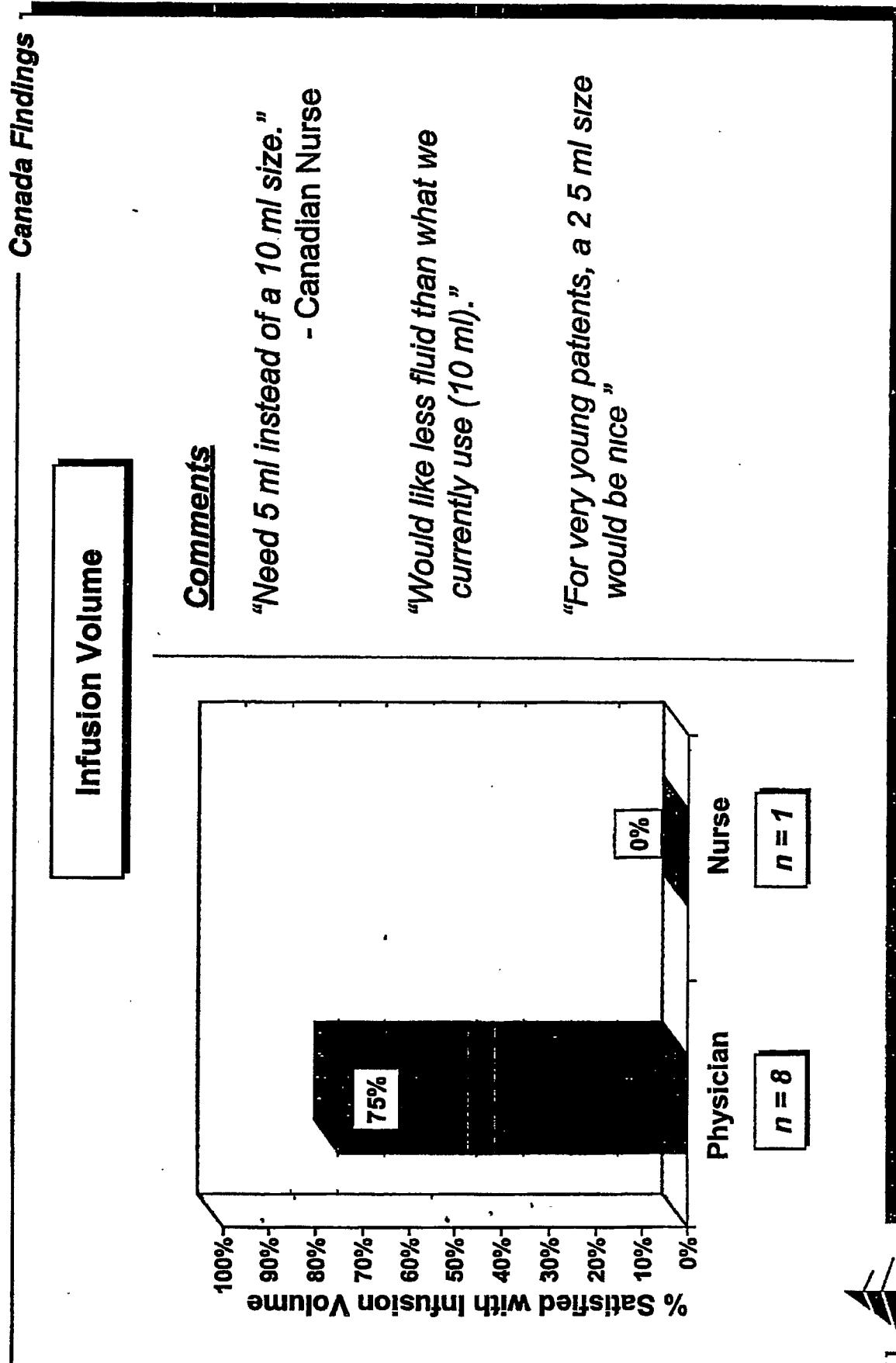
Canadian Professionals

- Concern of CJD 11%
- Concern of prions 11%
- Product half-life 11%

n = 9



One third of Canadian responders expressed the need for smaller infusion volumes.

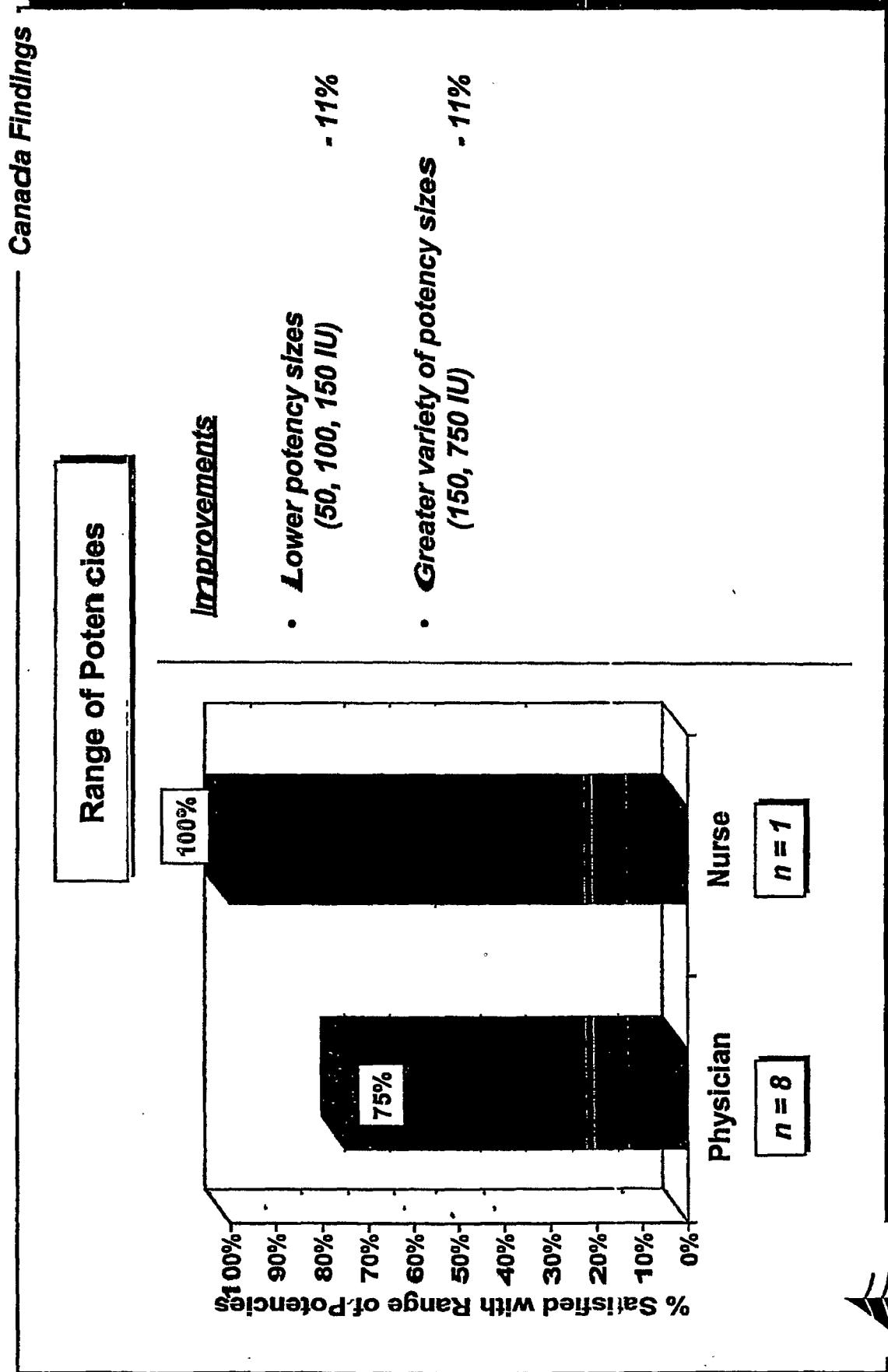


85

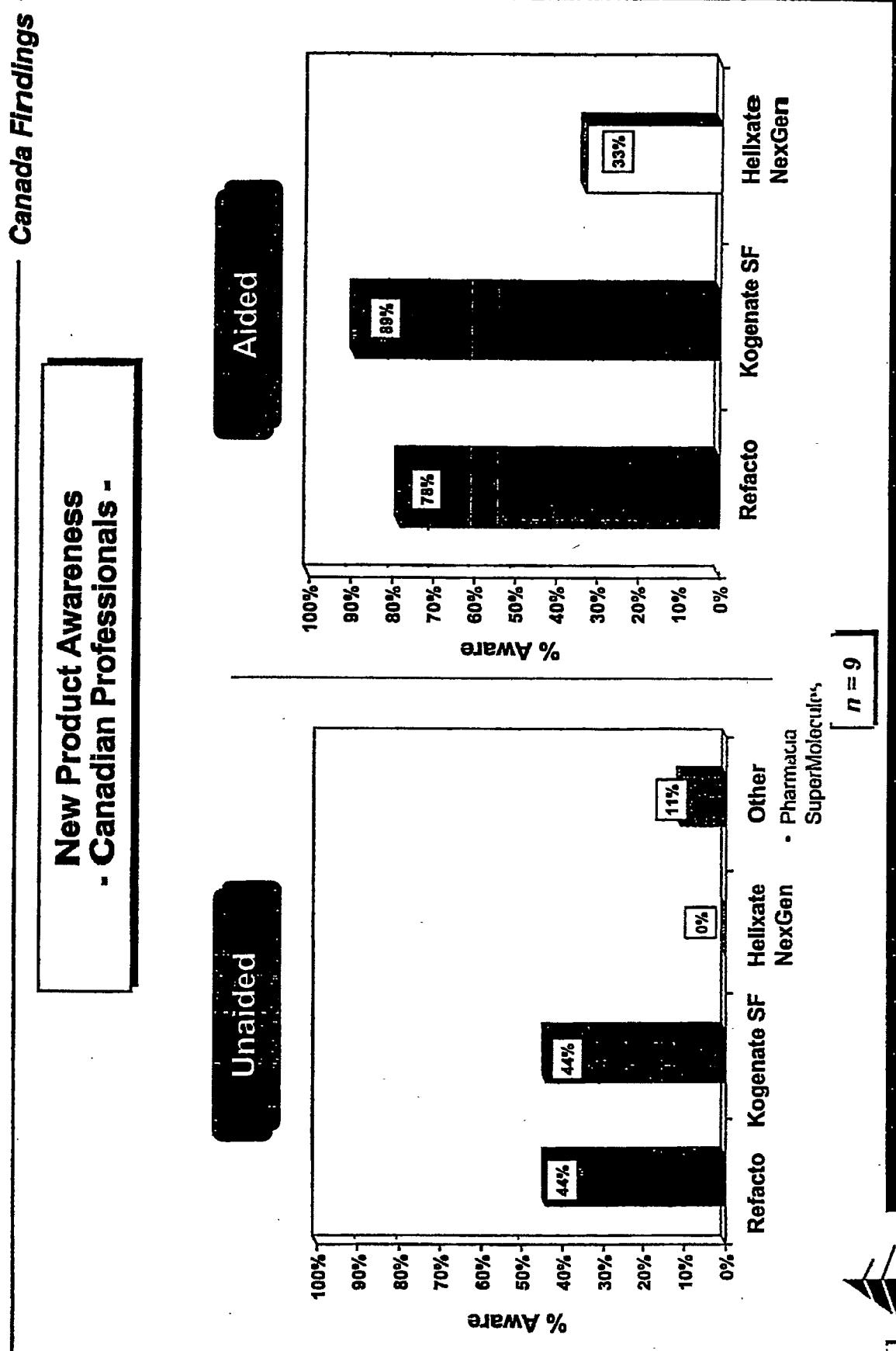
GH001190



A couple of Canadian physicians expressed dissatisfaction with the current range of potencies available.



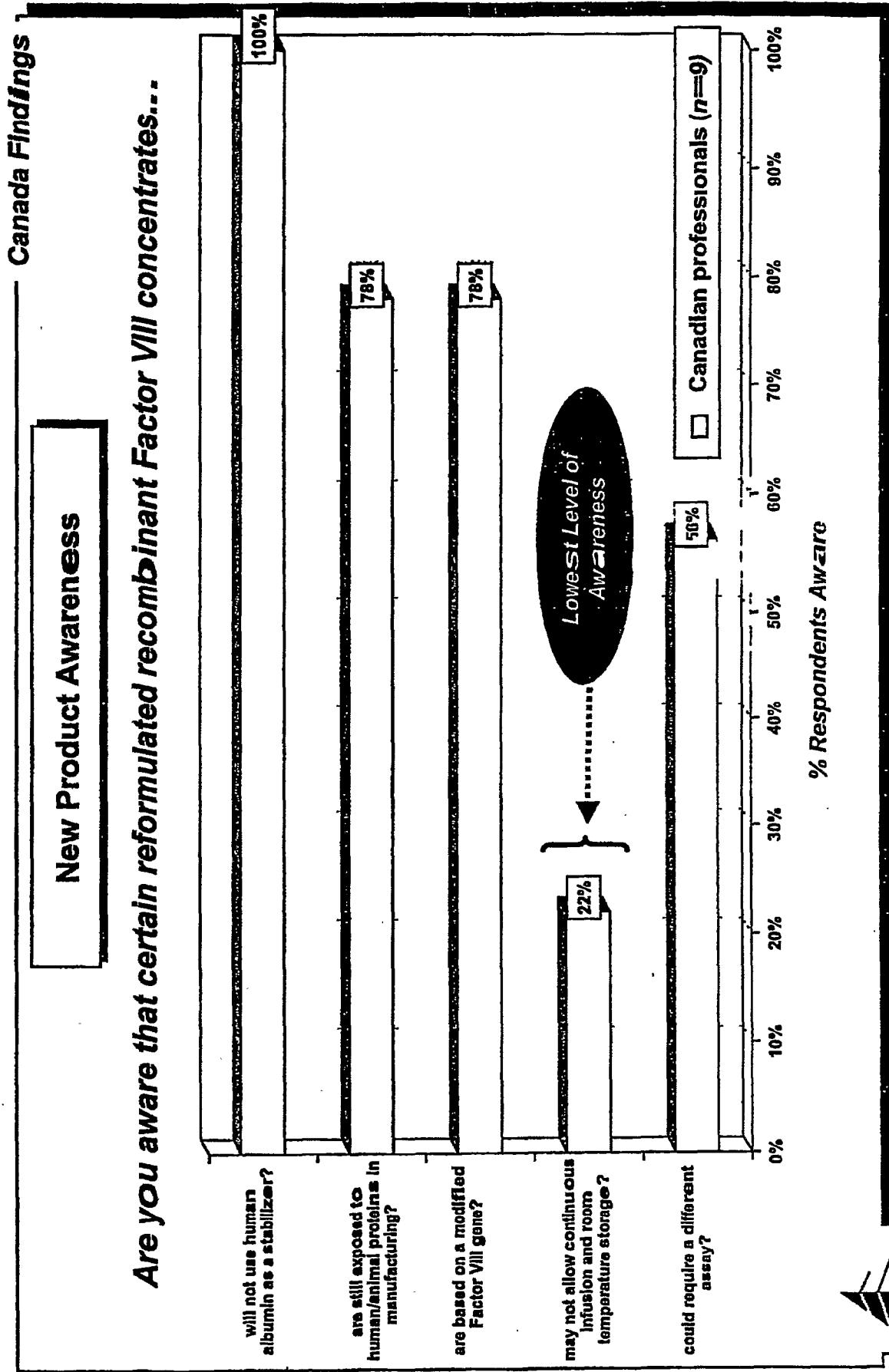
Awareness of Kogenate SF and Refacto were similar among thus sample of Canadian professionals.



The greatest belief among Canadian professionals about Kogenate SF and Refacto is that they will be albumin free. Few respondents had knowledge of Helixate NexGen.

| | Canada Findings | | |
|---|-----------------|---------|---|
| | Kogenate SF | Refacto | Helixate NexGen |
| Current Knowledge of New Products - Canadian Professionals - | | | |
| • Albumin free | 56% | 22% | • No answer 67% |
| • Less albumin | 44% | 22% | • Albumin free 22% |
| • Sucrose as stabilizer | 44% | 22% | • Sucrose as stabilizer 11% |
| • No answer | 11% | 11% | • Heard of, but nothing specific 11% |
| • Heard of, but nothing specific | 11% | 11% | • Heard of, but nothing specific 11% |
| • New, improved treatment process | 11% | 11% | • May impact renal function 11% |
| • No animal proteins | 11% | 11% | • Can't continuously infuse 11% |
| • May impact renal function 11% | 11% | 11% | • May have higher risk of inhibitors 11% |
| • Can't continuously infuse 11% | 11% | 11% | % of respondents mentioning <input type="text" value="n = 9"/> |

New product awareness among Canadian professionals is similar to that of U.S. professionals.

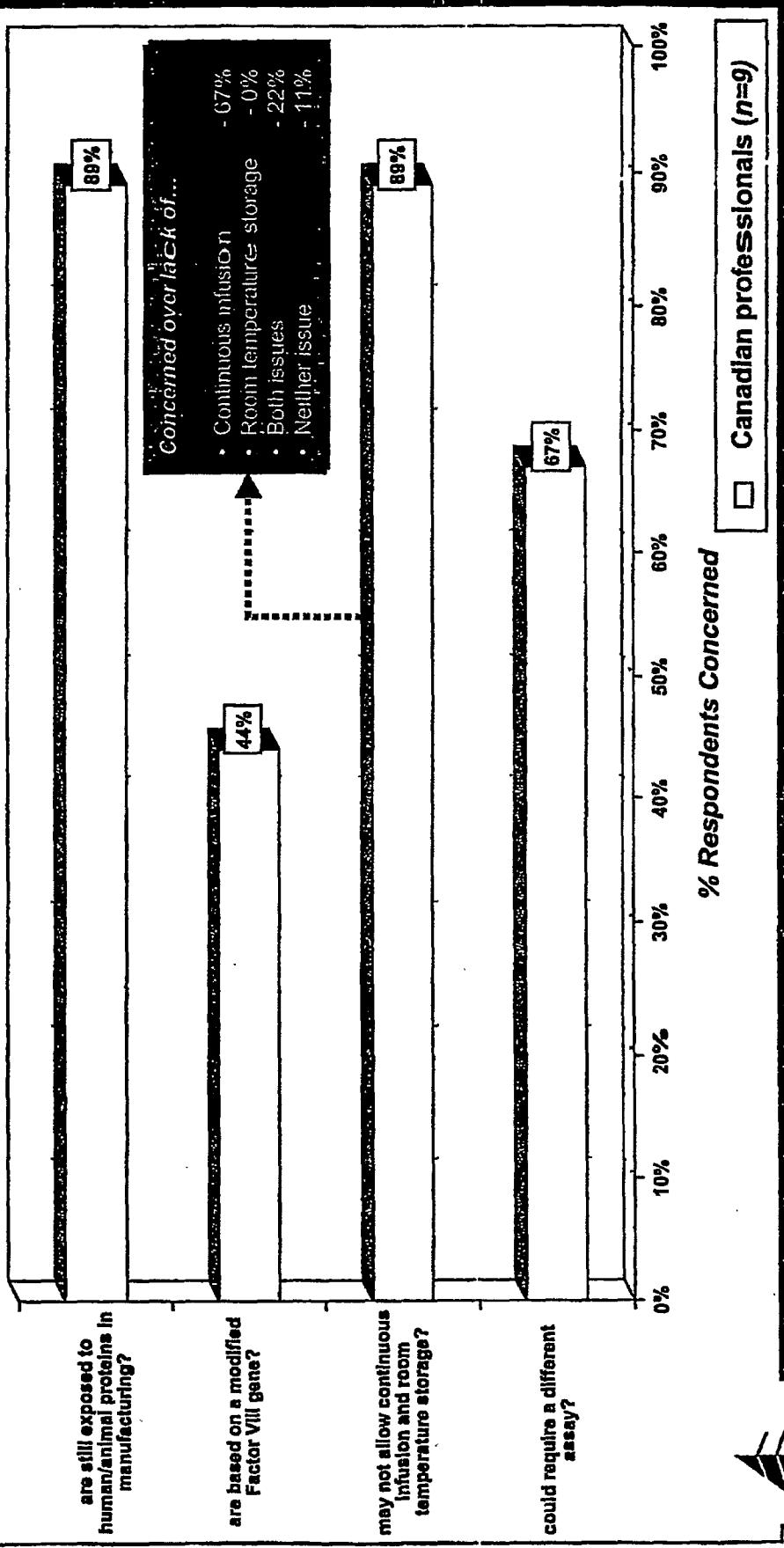


Canadian professionals are more concerned than Americans with exposure to human/animal proteins in manufacturing, but less concerned with requiring a different assay.

Canada Findings

New Product Concerns

Is it a concern to you that certain reformulated recombinant Factor VIII concentrates...



Canadian physicians explain their concerns . . .

Canada Findings

New Product Concerns - Canadian Professionals -

Comments/Quotes

"It's good not to use albumin as a stabilizer as long as there is something else to stabilize the product. If it's not stable, do you need to use more product and increase the cost per treatment?"

"The public will still be concerned of any product using human or animal proteins. The recent CJD incident with Kogenate will strengthen that concern."

"The initial concern in deleting the B-domain was there were going to be many more inhibitors. But I think they have done enough studies to show that is not the case"

"Not being able to continuously infuse would be a concern. If the product is not stable it would make infusion difficult having to use a bolus"

"It will be difficult to assess a patient if the assays are showing two completely different results It would also be confusing and costly for the lab to get the new equipment"



MKIII

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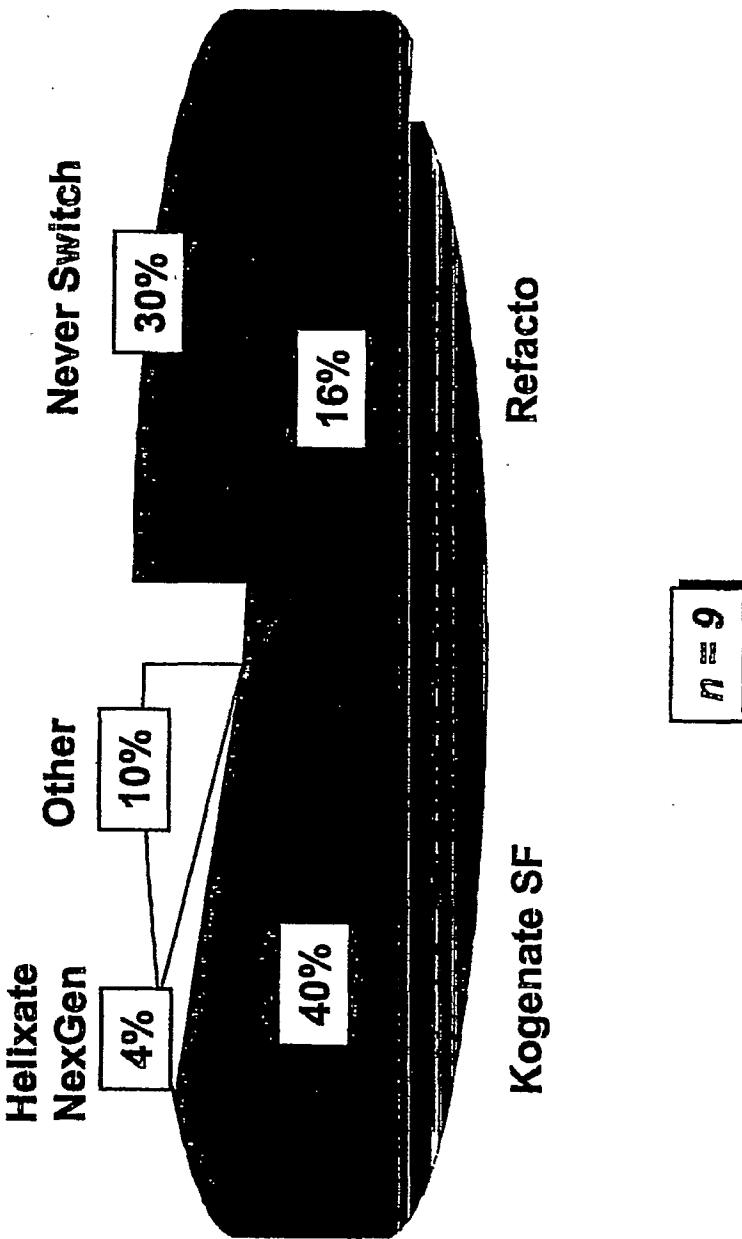
GH001196

On average, Canadian professionals expect 30% of their patients not to switch to a reformulated product. Kogenate SF is clearly most likely to be the product of choice for those that do switch.

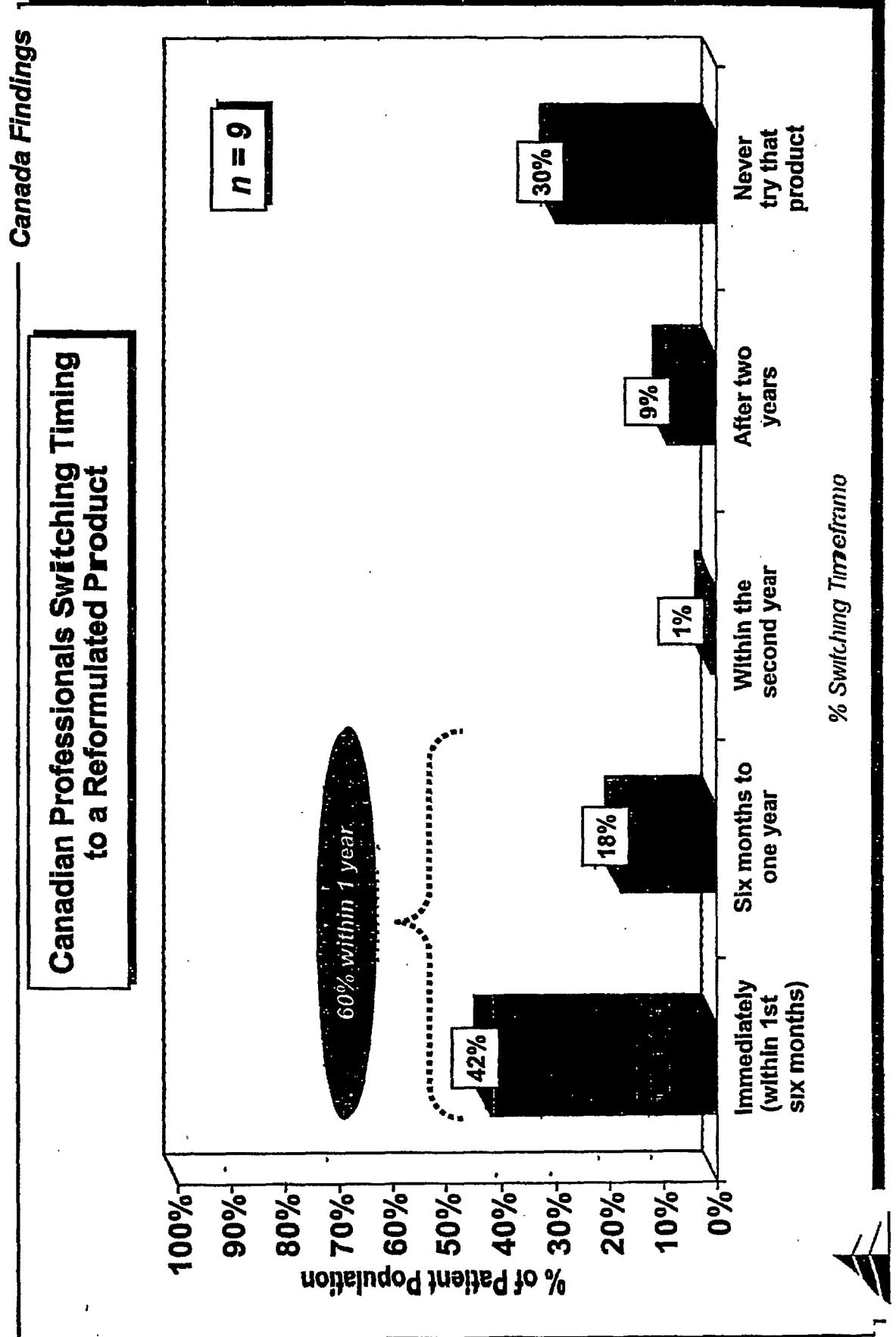
Canada Findings 1

What % of Patients Will Switch to Each Product?

- Canadian Professionals -



Canadian professionals expect 60% of their patients to switch to a reformulated product within one year.



Many factors will influence the speed at which patients switch.

Canada Findings

Canadian Professionals Switching Timing - Explanations -

Comments/Quotes

"Those that do switch will want to switch right away."

"We always have a group that is scientific and eager to try new things"

"We have a certain population that is always looking for a product that has the smallest amount of human plasma in it and they will switch right away. A small number will want to see how it works first, before trying it"

"There is no hurry, these patients have already been exposed to human albumin so it gives them more difference, so I would recommend using up the previous products before switching to the new"

"It really depends upon supply The more new product available, the sooner people will switch."

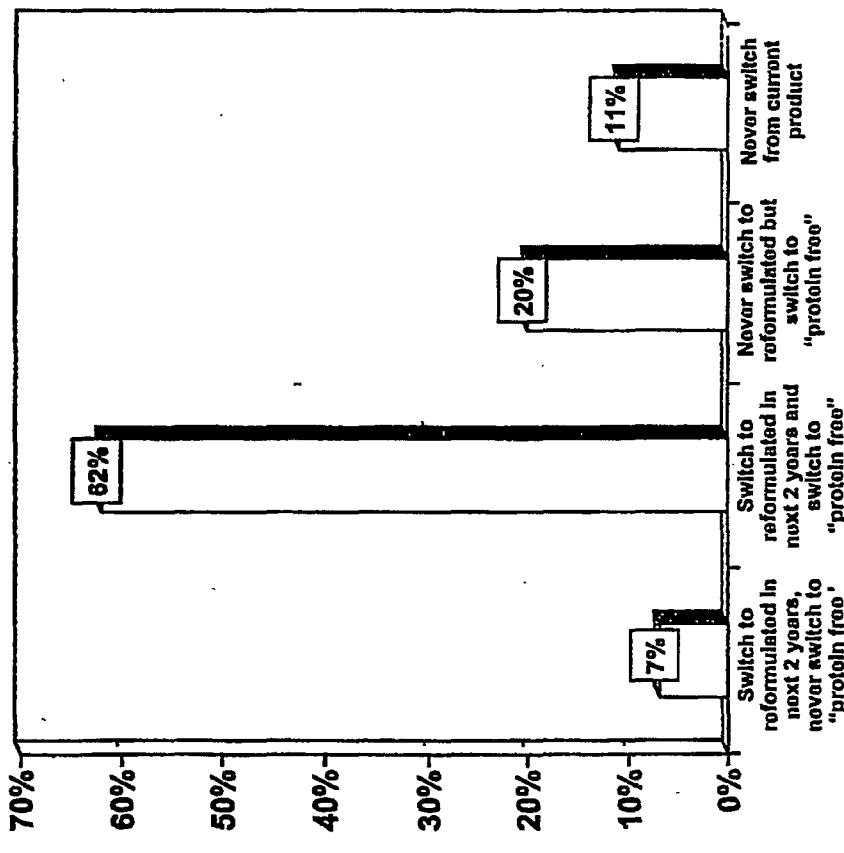


M'RTEC

Canadian professionals expect nearly two-thirds of their patients to switch first to the reformulated product and then to the protein free.

Canada Findings

Switching Scenarios - Canadian Professionals -



"Given the chance, patients will always want to use the safest product. They will put pressure on us as hematologists to switch them"

"Most patients will switch and take gradual steps to the purest product Protein free is the goal, but any improvement along the way helps" - Canadian Nurse

"There would be only some that would switch initially if they knew a protein free product would be available soon"

Age can play a factor in the switching decision, but often is only part of the equation. Availability, cost and previous infections are also factors.

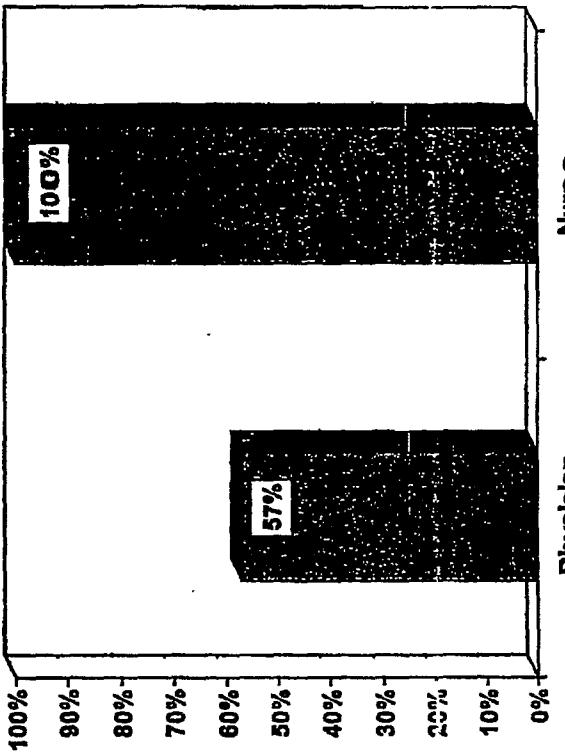
Is Patient's Age a Factor In Deciding to Switch Products?

Canadian Professionals

Comments/Quotes

Comments

% Yes, Age is a factor



Nurse

n = 1

Physician

n = 8



M A R T E C

Canada Findings

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GH001201

Canadian professionals indicate Kogenate SF may be the preferred product from PUPPs.

Canada Findings

| Will One Reformulated Products be Preferred for PUPPs? | |
|---|--|
| Comments | |
| Comments/Quotes | |
| <p><i>"The decision is made at the CDS level Based on our past contract with Bayer, it will likely be Kogenate SF"</i></p> <p style="text-align: right;">- Canadian Nurse</p> | |
| <p><i>"It will depend on availability and we will probably only have Kogenate SF available"</i></p> | |
| <p><i>"I don't have enough knowledge about the new product to say"</i></p> | |
| <p><i>"We have used Kogenate in the past and feel comfortable with it, so it will make sense to go with Kogenate SF"</i></p> | |

% Newly Diagnosed on Reformulated?

| Physicians | Nurses |
|------------|--------|
| - 81% | - 100% |

% Yes, prefer one product for PUPPs

| Category | Prefer One Product (%) |
|-----------|------------------------|
| Physician | 50% |
| Nurse | 100% |

n = 8 n = 1

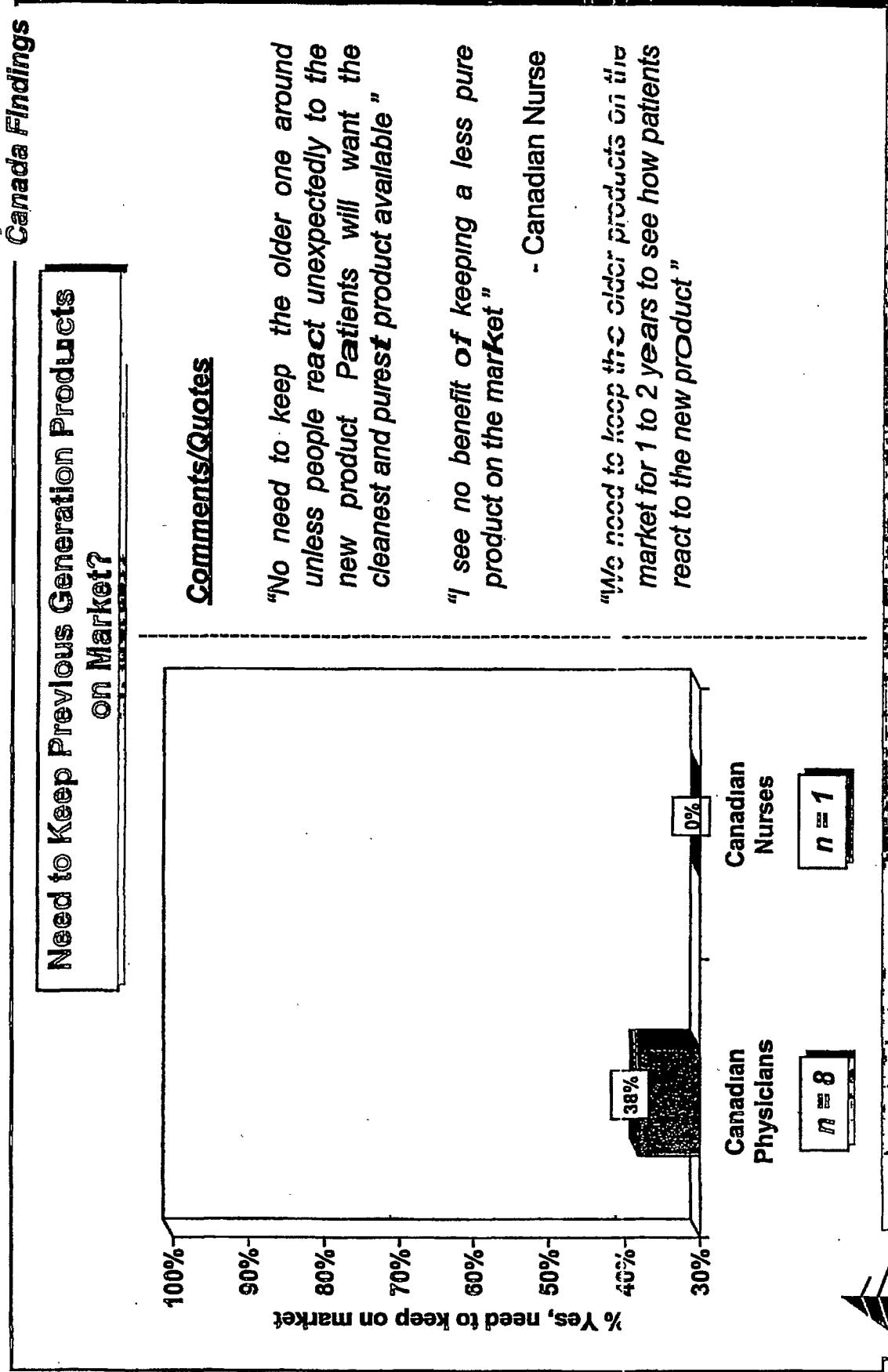
- Kogenate SF - 25%
- Albumin free - 13%
- No answer - 12%

97

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Overall, Canadian professionals don't see need to keep previous products available.



Canadian professionals generally saw the inability of the new products for continuous infusion as more of a limitation than room temperature storage.

Canada Findings

Convenience Features with New Products
- Canadian Professionals -

Will lack of these features influence your opinion of the new products?

No

11%

89%

Yes

% concerned over / lack of..

- Continuous infusion 33%
- Room temperature storage 11%
- Both issues/ one not specified 45%

n = 9

"This would be a serious issue. You would have to then keep Kogenate around for serious cases and surgeries."

"These are problems. We would have to go back to the old products or find a new product that enabled these features."

"Lack of room temperature storage would be a real issue for our patients on the go. They probably would not switch"

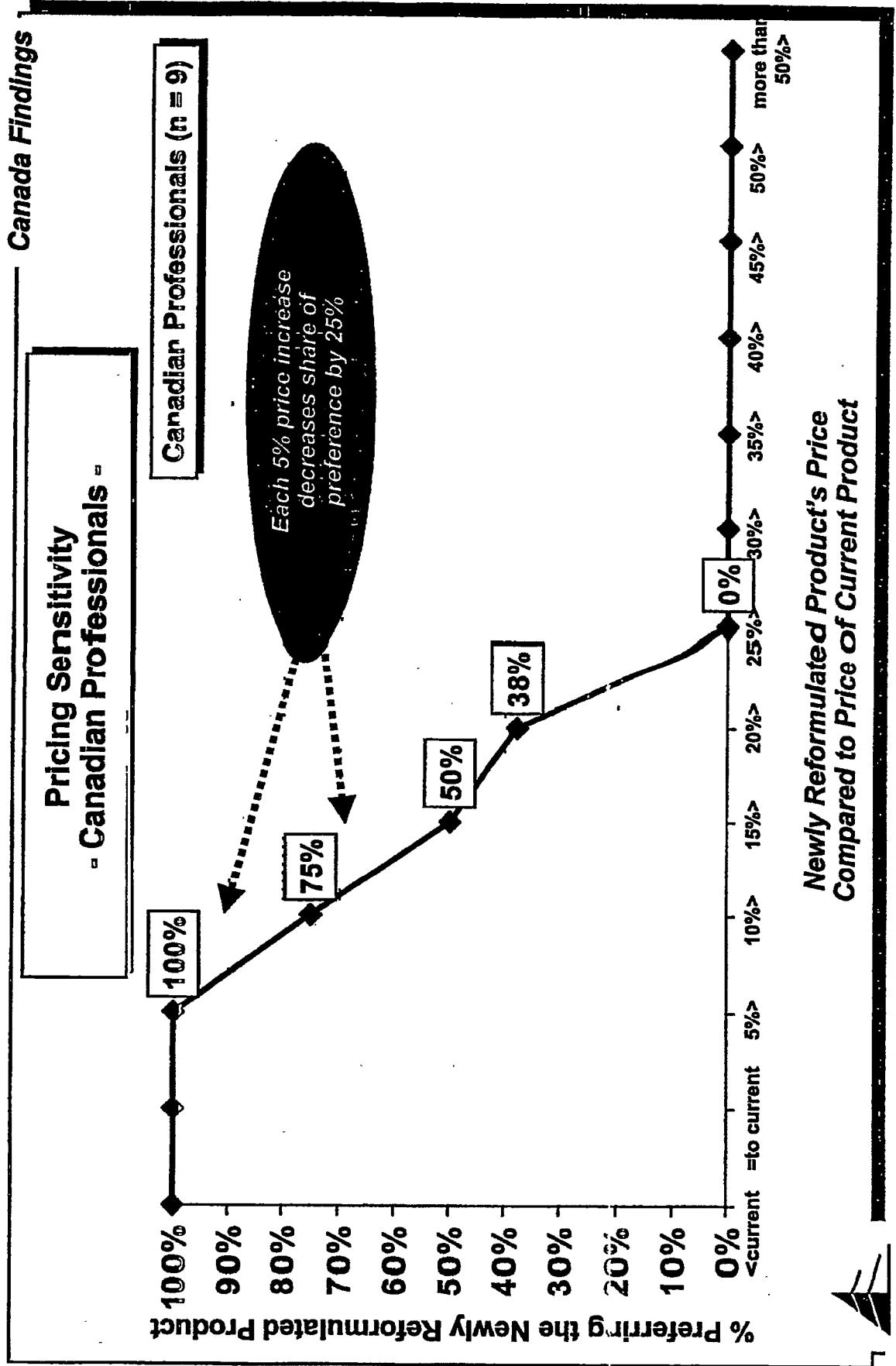
"I'd still go with the safer product. Everyone has a refrigerator and continuous infusion is not that big of an issue because we perform very few pediatric surgeries"

99

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All Canadian respondents were willing to pay a 5% premium for the reformulated product. However, a 20% premium was the maximum.



In Canada's social medical program, a price premium is possible, but it must be justified.

Canada Findings

Pricing Sensitivity Comments

Comments/Quotes

"At least in Canada, there's always the balance of the theoretical safety you want to achieve with the amount of money you will pay. There have been no documented transmissions of diseases from albumin, so maybe a 10% premium for the new product is as high as you could go "

"Depends upon consumer demand We went to a product that was 200% more expensive when we went from monoclonal to recombinant. Maybe a 10% premium is reasonable."

"Patients do not pay for their products here As a Canadian doctor I'd choose the best product for my patient As a member of society, I would pay 20% more for the reformulated products"

"The new product must be fiscally responsible A 20% premium is a lot to spend for the new products"

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Agenda

Objectives and
Methodology

U.S. Findings

U.S. Conclusions

Canadian Findings

Canadian Conclusions

North American
Recommendations



In many ways, Canadian professionals are similar to U.S. professionals. However, some key differences exist...

| Conclusions | |
|---|---|
| Key Canadian Findings | |
| <ul style="list-style-type: none"> Recombinant use is very high in Canada (96%) Over 60% of Canadian professionals' patients are Kogenate users in this sample <i>Human proteins</i> are more of a concern than <i>animal proteins</i>, but unprompted concern of CJD was mentioned also (22%) Baxter receives high reputation ratings because of no recent problems (<i>problems included CJD with Bayer and manufacturing with Centeon</i>) Cost received lower importance ratings in Canada than in the U.S. Product name and product issue awareness is very similar to U.S. Concern over exposure to <i>human/animal proteins in manufacturing</i> is higher than in the U.S. Concern over the use of a <i>different assay</i> is lower than in the U.S. | <ul style="list-style-type: none"> Switching to Kogenate SF is much more likely than switching to Refacto; even among PUPs Switching timing is expected to occur faster in Canada, with 63% of patients switching within 1 year Physicians expect more patients to switch both to the reformulated product and again to the "protein free" (62%), versus wait for the "protein free" (20%) Lack of convenience features is a big concern, with inability for <i>continuous infusion</i> much more so than <i>no room temperature storage</i> Canadian physicians are the least price sensitive of all regions studied, with 75% willing to pay a 10% premium Kogenate SF will provide the greatest threat to Baxter due to Kogenate's strong position in this market and likelihood to be the first new product to market |

Agenda

Objectives and
Methodology

U.S. Findings

U.S. Conclusions

Canadian Findings

Canadian Conclusions

North American
Recommendations



North American Project Recommendations

Recommendations

Baxter can make several marketing moves to slow the acceptance of Kogenate SF, Refacto and Hellixate NexGen, perhaps buying more time than the current window. Specific strategies include:

- Immediately publicize to physicians, nurses and patients that Baxter is developing a "protein free" product... *get the word out.*
- Use proactive and defensive marketing tactics to control the speed at which Recombinate users switch to competing reformulated products *act on the drivers and barriers that Baxter can influence.*
- Work vigorously on a "protein free" product with the critical goal of being the first to market *.be the R&D leader.*



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North American Recommendations (continued)

Recommendations

Get the Word Out

- publicize to physicians, nurses and patients that Baxter is developing a "protein free" product and educate everyone on Baxter's new product as early as possible

Proactive Marketing Efforts

- continue promoting Recombinate's track record and Baxter as an established FVIII manufacturer
- continue developing brand identity and loyalty for Recombinate, particularly among professionals
- differentiate via patient education and convenience features (5 ml infusion volumes, a greater selection of potencies, smaller packaging and improved reconstitution/syringe system)

Defensive Marketing Efforts

- educate about the use of *human/animal proteins during manufacturing, refuting (or weakening) the claims that new products will be "albumin free"*
- educate about the use of a *modified gene* in new products
- educate about Kogenate SF's potential inability for *continuous infusion (physician focus) and room temperature storage* (patient and nurse focus)
- raise questions about the problems of a *different assay* for Refacto
- raise questions with physicians about the risks of taking patients off of a single product versus the unsubstantiated reward of an incrementally safer product
- raise questions with physicians about the availability of the newly reformulated concentrates
- raise questions about GI's ability to supply and its commitment to the hemophilia market
- make all efforts to delay the introduction of the reformulated products (*e.g. question how Refacto can pass trials in the US using different assays, refute the trial results of all new products*)
- if share is slipping rapidly, price Recombinate 10% lower than the reformulated products



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GH001211

North American Recommendations (continued)

Recommendations

Shorten the Window of Exposure

- Physicians and patients need time to review clinical trials prior to switching to a new product. If Baxter can get its product to market within the two year window it can potentially avoid losing a large share of its customers.
- It typically takes a full year for a physician to see each patient and discuss new products and switching. Take advantage of this time to educate, build loyalty and raise doubts about the true benefits of the reformulated products

First to Market with "Protein Free"

- A "protein free" FVIII concentrate will be seen as a major step-change improvement in safety
- The first company to market with a totally human/animal protein **free** product should be able to capture a very large percentage of switching patients in a one year time frame, capitalizing on a "first corner" advantage
- Being first to market with a totally safe product would also greatly strengthen the company's reputation and position it as the leader in the Factor VIII replacement market

This concludes the presentation.
Thank you very much
WAK



Appendix
- North American Professional Respondent List -



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GH001213

1999 Baxter Global Hemophilia Study

North American Professional Respondent List

Appendix

| | | | | | | |
|----|------------------------|-----------|--------------------------------|---------------|----|--------------|
| US | Dr Lusher | Physician | Children's Hospital | Detroit | MI | Pilot |
| US | Hassan Yalish, MD | Physician | Henry Ford Hospital | Detroit | MI | Pilot |
| US | Sandy Harris, RN | Nurse | Northwestern University | Chicago | IL | Pilot |
| US | Beth Chase, RN | Nurse | Oakland Children's Hospital | Oakland | CA | Pilot |
| US | Leonard Valentino, MD | Physician | Rush Presbyterian | Chicago | IL | Pilot |
| US | Manon Koerper | Physician | University of California | San Francisco | CA | Pilot |
| US | Name Withheld | Physician | University of Michigan | Ann Arbor | MI | Pilot |
| US | Berlinda MacAdory, RN | Nurse | Arkansas Children's Hospital | Jacksonville | AR | 501-320-5961 |
| US | Kimo Stine, MD | Physician | Arkansas Children's Hospital | Shenwood | AR | 501-320-1495 |
| US | Michael Recht, MD | Physician | Phoenix Children's Hospital | Phoenix | AZ | 602-239-2400 |
| US | Rachel Stuart, RN | Nurse | Phoenix Children's Hospital | Phoenix | AZ | 602-239-2546 |
| US | Terry Scott Wood, MD | Physician | Phoenix Children's Hospital | Phoenix | AZ | 602-239-5791 |
| US | John Hutter, MD | Physician | University of Arizona | Tucson | AZ | 520-626-7637 |
| US | Mary Ellen O'Leary, RN | Nurse | Alta Bates Medical Center | Berkeley | CA | 510-237-2826 |
| US | Vicky Leonard, RN | Nurse | Children's Hospital Oakland | Berkeley | CA | 510-428-3378 |
| US | Ellen Bolotin, MD | Nurse | Children's Hospital of LA | Grenada Hills | CA | 323-669-5639 |
| US | Robert Miller, PA | Physician | Childrens Hospital | Los Angeles | CA | 323-669-2121 |
| US | Robert Mignacca, MD | Nurse | Valley Children's Hospital | Madera | CA | 559-225-3000 |
| US | Catherine Glas, RN | Nurse | UCSD Medical Center | San Diego | CA | 619-294-6479 |
| US | Susan Karp, RN | Nurse | University of CA at SF | San Francisco | CA | 415-476-5861 |
| US | Julie Hambolten, MD | Physician | University of California | San Francisco | CA | 415-476-9608 |
| US | Arnold J Altman, MD | Physician | Connecticut Children's Med Ctr | Hartford | CT | 860-545-9616 |
| US | Philip Blatt, MD | Physician | Christian Care Health Center | Newark | DE | 302-999-8095 |
| US | Joann Davis, MD | Physician | University of Miami | Plantation | FL | 954-473-9795 |
| US | Cameron Febbi, MD | Physician | Tampa Children's Hospital | Tampa | FL | 813-870-4824 |
| US | Valerie Cronshaw, RN | Nurse | Medical College of Georgia | Augusta | GA | 706-721-7367 |
| US | Charlton Davis, MD | Physician | Scottish Rite Children's Med | Durwood | GA | 404-257-3230 |
| US | Alton Lightsey, MD | Physician | Medical College of GA | Evans | GA | 706-855-6860 |

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North American Professional Respondent List (continued)

Appendix

| | | | | | | |
|----|------------------------------|-----------|--------------------------------|---------------|----|--------------|
| US | Dr Thomas Kisker | Physician | University of Iowa | Iowa City | IA | 319-356-3422 |
| US | Susan Gamerman, RN | Nurse | Children's Memorial Chicago | Chicago | IL | 773-880-4620 |
| US | Dr Debra Brown | Physician | Children's Memorial Hospital | Chicago | IL | 773-880-3977 |
| US | Anita Bortleyan, RN | Nurse | Michael Reese Hospital | Chicago | IL | 312-791-2384 |
| US | Ruth Seeler, MD | Physician | U of Chicago/Michael Reese | Chicago | IL | 773-521-1710 |
| US | Mary Sipitari, MD | Physician | Jackson Park Hospital | Park Ridge | IL | 847-318-Q477 |
| US | Dr Michael Tarantino | Physician | Comprehensive Hemophilia Ctr | Peoria | IL | 309-692-4533 |
| US | Cindy Leissinger, MD | Physician | Tulane University | Metairie | LA | 504-588-5498 |
| US | Karen Wulf, RN | Nurse | Louisiana Hemophilia Center | New Orleans | LA | 504-588-5433 |
| US | Carol Sweeney-McGreath, RN | Nurse | Boston Hemophilia Center | Boston | MA | 617-355-6101 |
| US | Helen Mahoney-West, RN | Nurse | Bingham Women's Hospital | Boston | MA | 617-732-5190 |
| US | Elizabeth Holloman | Nurse | John Hopkins School of Med | Baltimore | MD | 410-502-5114 |
| US | Fred Heldrich, MD | Physician | John Hopkins University/St Agn | Baltimore | MD | 410-368-2500 |
| US | Anne Rossi, MD | Physician | Malhe Medical Center | Portland | ME | 207-885-7565 |
| US | Jim Munn, RN | Nurse | University of Michigan | Ann Arbor | MI | 734-936-6393 |
| US | Steven Pipe, MD | Physician | Women's Hospital-U of MI | Ann Arbor | MI | 734-647-3809 |
| US | Charles Main, MD | Physician | William Beaumont Hospital | Beverly Hills | MI | 248-551-0360 |
| US | Muhammed Shurafa, MD | Physician | Henry Ford Hospital | Detroit | MI | 313-761-1901 |
| US | Rashni Kulkarni, MD | Physician | Michigan State University | East Lansing | MI | 517-349-5390 |
| US | Elizabeth Sandon-Kleibos, RN | Nurse | Devos Children's Hospital | Grand Rapids | MI | 616-391-2033 |
| US | Jane Dinnen, RN | Nurse | Munson Medical Center | Traverse | MI | 231-935-7227 |
| US | Nigel Key, MD | Physician | Fairview-University of MN | Minneapolis | MN | 612-624-8903 |
| US | Neil Correll, MD | Physician | Dartmouth Hitchcock Hemophilia | Lebanon | NH | 603-560-5522 |
| US | Lauren McKeman, RN | Nurse | Dartmouth-Hitchcock Hemophilia | Lebanon | NH | 603-650-5486 |
| US | Dr Jack Golberg | Physician | Cooper Health System | Camden | NJ | 609-325-6750 |
| US | Jane Ellen Jones, RN | Nurse | University of New Mexico | Albuquerque | NM | 505-272-6420 |



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North American Professional Respondent List (continued)

Appendix

| US | Dr Prasada Mathew | Physician | Nurse | Children's Hospital of Buffalo | Buffalo | NY 505-272-6822 |
|--------|------------------------|-----------|----------|-------------------------------------|----------------|-----------------|
| US | Lynn Merza, RN | Nurse | Mt Sinai | Mt Sinai | Manhattan | NY 716-878-7446 |
| US | Joan McCarthy, RN | Nurse | Mt Sinai | Mt Sinai Women Health Center | New York | NY 718-268-1879 |
| US | Stephanie Seremets, MD | Physician | | Mount Sinai | | NY 212-241-8272 |
| US | Alice Foster, RN | Nurse | | Ohio State Univ Hemophilia | Columbus | OH 614-293-8183 |
| US | Sylvia Jordan, RN | Nurse | | Children's Medical Center | Dayton | OH 937-293-4719 |
| US | Nancy Duffy, RN | Nurse | | Children's Hospital | Oklahoma City | OK 405-271-5311 |
| US | Charles Sexauer, MD | Physician | | Children's Hospital of Philadelphia | Philadelphia | PA 215-590-3438 |
| US | Regina Butler, RN | Nurse | | Children's Hospital of Philadelphia | Philadelphia | PA 215-590-3438 |
| US | Allan Cohen, MD | Physician | | St. Christopher's | Philadelphia | PA 215-743-8773 |
| US | Jackie Ila, RN | Nurse | | Children's Hospital | Columbia | SC 803-772-6095 |
| US | Barbara Carroll, RN | Nurse | | East Tennessee Comprehensive | Knoxville | TN 423-544-9170 |
| US | Cherys Zimmerman, RN | Nurse | | University of Tennessee | Memphis | TN 901-448-6454 |
| US | Jan Tuller, RN | Nurse | | Children's Med Center | Dallas | TX 214-456-5401 |
| US | Kim Miller, RN | Nurse | | South Texas Comprehensive | San Antonio | TX 210-704-2862 |
| US | Marie Ramirez, RN | Nurse | | Primary Children's Med Ctr | Salt Lake City | UT 801-588-2903 |
| US | Shirley Bleak, RN | Nurse | | Children's Hospital-Kings | Norfolk | VA 757-668-7613 |
| US | Kim Stuart, RN | Physician | | Manitoba Cancer Foundation | Winnipeg | 204-787-2113 |
| Canada | Morel Rublinger, MD | Physician | | British Columbia Children's | Richmond | 604-875-3577 |
| Canada | Dr Jeff Davis | Physician | | University of Alberta Hospital | Edmonton | 780-407-6588 |
| Canada | Wilma McClure, RN | Nurse | | Vancouver General Hospital | Vancouver | 604-875-4702 |
| Canada | Gerry Groves, MD | Physician | | Jane Wayne Child Help Center | Saint Johns | 709-778-4799 |
| Canada | Jack Hand, MD | Physician | | Children's Hospital of E. Ontario | Ottawa | 613-737-2422 |
| Canada | Dr Koon Hung Luke | Physician | | British Columbia Children's | Vancouver | 604-875-3467 |
| Canada | Dr John Wu | Physician | | Vancouver Hemophilia Clinic | Vancouver | 604-684-2331 |
| Canada | Linda Vickars, MD | Physician | | The Hospital for Sick Children | Toronto | 416-813 6910 |
| Canada | Manual Carcao, MD | Physician | | | | |



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GH001216

2nd Gen. ReF VIII

Japan Findings

GH001218

Final Report

2nd Generation Recombinant Factor VIII
Product Introduction Assessment

Japan Findings

Baxter Healthcare Corporation

January 17, 2000

MARTEC

Agenda

Objectives and
Methodology

Japanese Findings

Japanese Conclusions and
Recommendations



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The primary goal of this project is to provide Baxter with global market intelligence allowing it to successfully position its recombinant Factor VIII product against competitive next-generation products.

Objectives

The primary objectives of this project are:

- Determine the motivators and drivers of switching behavior. What will cause and prevent switching from Recombine to a competitive product?
- Understand the perceptions of decision makers on the next generation recombinant products (Kogenate SF, Refacto and Helixate NexGen) coming to market and how this differs from the previous findings

Specific project objectives include:

- Estimate likelihood of switching from Recombine to new recombinant products
- Compare findings to those of the initial 1998 study, where applicable

This report represents the views of this sample and is just one piece of a strategic marketing plan. Baxter must balance this data with its corporate directives and other internal, competitive and legislative intelligence.



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